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## **A BIBLIOGRAPHY OF THE FIG<sup>1, 2</sup>**

**IRA J. CONDIT and JULIUS ENDERUD<sup>3</sup>**

### INTRODUCTION

The literature on the common fig is voluminous and dates from very early times. Three or four centuries before the Christian era, Greek poets such as Hesiod mentioned this fruit in their lyrics. Aristotle told of the fig insect, called "psen", which pierced unripe figs and prevented their falling. Theophrastus reported that seedlings of figs and of other fruits were almost universally inferior. He gave directions for propagation by cuttings and for grafting mature trees. It was only natural that Greek and also Roman writers should have given us various accounts of the fig which was such a common fruit and so highly esteemed by them.

The Phoenicians and the Moors were instrumental in extending the culture of figs not only along the Mediterranean coasts but also along the Atlantic coast of Africa. In Spain and Portugal fig culture assumed as great importance as in Greece and Italy or even greater. Naturally there appeared in the literature of these countries books and other publications in which the fig and its qualities are discussed. An especially noteworthy publication is the two-volume work of the Moor, Ibn-Al-Awam (1150-1170 A.D.) who devoted several pages to detailed instructions on propagation of the fig tree and its culture, uses of the fruit and its medicinal properties.

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<sup>2</sup> Paper No. 888, University of California Citrus Experiment Station, Riverside, California.

<sup>3</sup> Ira J. Condit is Professor of Subtropical Horticulture, Emeritus, and Subtropical Horticulturist, Emeritus, in the Citrus Experiment Station, Riverside; Julius Enderud is Senior Laboratory Technician in Horticulture, Riverside.

The two countries of the Old World which have produced the most voluminous and probably the most notable fig literature, both ancient and modern, are Italy and France, as shown by the sections devoted to them in this Bibliography. While the climate of the British Isles is not as favorable to production of figs as are more southern climes, the culture of this fruit both out of doors and under glass has evoked a remarkable number of articles devoted to it, many of them translations from the French and other languages.

Complete books on the fig are few. Those on the olive, also a fruit of ancient origin, are numbered by the dozen. Those on the fig number three only, one in Spanish, one in Italian, and a third in English. Certain bulletins like those of Gustav Eisen in 1901 and of Drs. Lutfi Ulkumen and Sabahattin Ozbek in 1948, might be classified as books. Examples of booklets which deal with local fig culture are by Edmond Juignet 1909 in France and A. C. Van Velzer, 1909, in Texas.

The list of references contains many items in which figs are mentioned only briefly or incidentally. But, especially in the early literature, I hesitate to rule out a publication as unimportant. Most of the early citations included in this Bibliography have been considered as worthy of mention by authors even though the material is very brief. Examples are: F. S. Krauss, 1907, on use of fig candy in the autumn festival at Kyoto, Japan; David Livingstone, 1858, stating that fig trees were carried from Angola and planted at Shinte in Africa; H. N. Ridley, 1930, showing that the fig is epiphytic in Cyprus, the seeds being spread by birds.

The accompanying Bibliography is designed to serve primarily librarians, specialists in subtropical horticulture, and individuals who become perplexed with the many problems arising in connection with the fig and its culture. It is hoped that the arrangement of references under subjects will make it more useful to specialists. The author index is added to facilitate the finding of desired references. Some citations by various authors could not be checked but the sources are given in case some investigator may wish to pursue the matter further.

In my search for fig references I have had the pleasure of contacting numerous librarians both personally and by correspondence, and of visits to noted libraries in various parts of the United States. My sincere appreciation is hereby expressed to the following who have given of their time and energy to make the publication possible. Aileen Jaffa, Agriculture Reference Service, University of California, Berkeley; Lazella Schwarten, Arnold Arboretum of Harvard University, Jamaica Plain, Massachusetts; Louise Bercaw, Chief, Division of Reference and Lending Services, United States Department of Agriculture, Washington, D.C.; J. C. Bay and K. L. Taylor, The John Crerar Library, Chicago; George A. Schwegmann, Jr., Union Catalog Division, and Miss Florence Hellman, Division of Bibliography, The Library of Congress; Corinne M. Simons, The Lloyd Library and Museum, Cincinnati; Dorothy S. Manks, Massachusetts Horticultural Society, Boston; Paul North Rice,

Chief of the Reference Department, The New York Public Library; Helen H. Norris, Circulation and Reference Division, Army Medical Library, Washington, D.C.; Edward H. Redstone, Supervisor in the Reference Division, The Public Library of the City of Boston; Winifred Ver Nooy, Reference Librarian, University of Chicago, Chicago; Dr. and Mrs. Philip Munz, Santa Ana Botanical Garden, Claremont, California; Gwen Staniforth, Reference Department and Associates, also William Hertrich, Curator Retired, Henry E. Huntington Library and Botanical Garden, San Marino, California; Margaret S. Buvens and Jeanne H. Lloyd, University of California Citrus Experiment Station Library, Riverside; and especially to Julius Enderud, who for the past twenty years has faithfully assisted me in innumerable ways, and is co-author of this Bibliography. To others whose names are omitted but who have nevertheless given material assistance through the years I also wish to express my gratitude.

Three general sources of references are as follows:

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1911-1918. The Bradley Bibliography. 5 vols.  
Riverside Press, Cambridge. (Publications  
of the Arnold Arboretum No. 3.)

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1872. Thesaurus literaturae botanicae. 576 pp.  
F. A. Brockhaus, Lipsiae.

Royal Society of London

1800-1883. Catalogue of scientific papers.  
12 vols. C. J. Clay and Sons, London.



## THE FIG IN BIBLE TIMES

Abbott, Edwin A.

1917. The fourfold gospel. Section 5. The founding of the new Kingdom. 796 pp. Univ. Press, Cambridge. (Figs, pp. 196, 202, 205, 206-7, 209, 381.) Condemnation of the fig tree, accounts by Matthew, Mark, Luke; "Spicing" (or "embalming") green figs mentioned in Song of Songs.

Anonymous

1931. Plants of the Bible. Missouri Bot. Garden Bul. 19:149-59. Illus. (Fig, p. 154). Brief.

Bacon, B. W.

1906. Fig tree. In: A dictionary of Christ and the Gospels. Ed. by James Hastings. 2 vols. Chas. Scribner's Sons, New York. (See: I:592-94.) 1. General account of the tree. 2. The parables of the fig tree and the barren fig tree. 3. The cursing of the fig tree. 4. The fig tree of Nathanael.

Balfour, John H.

1857. The plants of the Bible: trees and shrubs. 200 pp. T. Nelson and Sons, London. (Fig, pp. 13-14.) 1866 ed. 192 pp. London. (Fig, pp. 31-33.) Biblical references and comments; color plate of leaves and purple fruit.
1859. Botany and religion. (3d ed.) 436 pp. A. & C. Black, Edinburgh. (Fig, p. 227. Figure 169.) Brief.

Barnum, Samuel W. (editor)

1884. Smith's comprehensive dictionary of the Bible. 1219 pp. D. Appleton and Co., New York. (Fig, p. 306. 1 figure.) Greek, "suke"=fig tree.

Barreira, Isidoro de

1662. Tractado das significoẽs das plantas, flores e fructos que se referem na Sagrada Escripura. 582 pp. Pedro Craesbeeck, Lisboa. (Figs, figueira, pp. 226-52.) Figueira, figos lampaos, figos verdes, folhas de figueira, figueira braua, figueira douda.

Bauer, Leonhard

1903. Volksleben im Lande der Bibel. 351 pp. H. C. Wallmann, Leipzig. Cited by Felix Goldmann, 1911. (Fig, pp. 139, 142.)

Benzinger, I.

1909. Fruit trees in the Old Testament. In: The Schaff-Herzog Encyclopedia of religious knowledge. 13 vols. Funk and Wagnalls Co., New York. See: 4:403-5. (Fig, p. 404.) Three kinds, bikkurim or early figs; te'enim or late figs; and phaggim or winter figs.

Bieroliet, M. van

1885. Les plantes de la Bible. Cited by Im. Low, Die flora der Juden, 1924-34, Vols. 1 and 4.

Bochart, Samuel

1663. Hierozoicon, or Annals of Scriptures. 3 vols. 3d ed. 1692. C. Boutesteyn & J. Luchtmans, Lugduni Batavorum. (Fig, 1:383.) "Vellicans sycomores...Sycomori scilicet agrestes afferunt ficus; quae, si non vellicentur, amarissimas cariculas faciunt, und a culicibus corrumpuntur."

Borah, A.

1929. Trees of the Bible. IV. The olive tree and the fig. Amer. Forests 35:155-57, 190. (Fig, p. 190.)

Bourdais, P.

1879. Flore de la Bible. 100 pp. Ernest Leroux, Paris. (F. carica, pp. 59-60.) Botany; Bible references.

Bowman

1721. Defense of our Lord cursing the fig tree in answer to Woolston. London. Cited by T. M. Harris, 1833. A dictionary.

Bowyer, William

1782. Critical Conject. Cited by Thaddeus M. Harris, 1833, A dictionary of the natural history of the Bible.

Bruce, Alex. B.

1884. The parabolic teaching of Christ. 4th rev. ed. 515 pp. Geo. H. Doran Co., New York. (The barren fig tree; or the withdrawal of Israel's privilege in favour of the Gentiles foreshadowed, pp. 427-37.) Comments.

Calcott, Maria (Lady Graham)

1842. A scripture herbal. 544 pp. Longman, Brown, Green, and Longmans, London. (Fig, pp. 139-46. 1 pl.) General account from Bible texts.

Calmet, Aug.

1812. Calmet's dictionary of the Holy Bible as published by the late Mr. Charles Taylor with the fragments incorporated. 8th ed. by Edward Robinson. 1003 pp. Crocker and Brewster, Boston. (Fig, pp. 429-31.)

## Carpenter, William

1833. Scripture natural history. 1st Amer. ed. from the latest London ed., with improvements by Rev. Gorham D. Abbott. 408 pp. Lincoln, Edmonds, & Co., Boston. (Fig tree, pp. 264-66.) Comments on Biblical references. 1812 ed. 4 vols. Charleston. (Fig, 4:15, 127, 401-2.)

## Celsius, Olof

1748. Olavi Celsii hierobotanicon sive de plantis sacrae Scripturae. 2 vols. J. Wetstenium, Amstelaedami. (Ficus, 2:368-99.) Good account with references to ancient works; caprification; medicinal uses.

## Cheyne, T. K., and J. S. Black

- 1899-1903. Encyclopedia Biblica. 4 vols. Macmillan and Co., New York. (Fig, 2:1519-22.) Hebrew and Greek terms explained; comments on Biblical references.

## Churchill, Charles

1766. Poems. (3d ed.) 2 vols. John Churchill and W. Flexney, London. In: Vol. 2:97-187. (Fig, p. 110.)  
 "The fig, which large as what in India grows,  
 Itself a Grove, gave our first parents cloaths."  
 Clearly refers to the banyan.

## Cook, Harriet N.

1846. The trees, fruits, and flowers of the bible. 120 pp. American Tract Society, New York. (The fig, pp. 30-34.) References; comments. Kermouse or summer figs ripe in August; sometimes succeeded by another crop which hangs and ripens even after leaves fall, or in the spring.

## Creizenach, Wilhelm

1875. Judas Ischarioth, in Legende und Sage des Mittelalters. 31 pp. E. Karras, Halle. (Feigenbaum, p. 8.) Reference to suggestion by Diego de Hojeda that Judas hung himself on a fig tree.

## Cruden, Alexander

- A complete concordance to the Holy Scriptures. New ed., by Alfred Jones. 757 pp. S. S. Scranton Co., Hartford, Conn. (Fig, p. 200.) References.

## Cultrera, Paolo

1861. Flora biblica. 486 pp. Lao, Palermo. Cited by Moldenke, 1952, Plants of the Bible, p. 262.

## Davis, John D.

1944. The Westminster dictionary of the Bible. 658 pp. Westminster Press, Philadelphia. (The fig and fig tree, p. 183. One figure.) Brief references and comments.



## Delitzsch, Franz

1899. A new commentary on Genesis. 2 vols. Transl. by Sophia Taylor. T. Clark, Edinburgh. (Fig leaves, pp. 155-56.) Fig leaves too soft for aprons.

## Dimmock.

1804. Dissertation on the barren fig tree. London. Cited by T. M. Harris, 1833, A dictionary.

## Drake, William

1861. In: A dictionary of the Bible, ed. by William Smith. 3 vols. Little, Brown and Co., Boston. (Fig, 1:619-20; 3:XLIX.) Bible references.

## Dummelow, John R.

1909. A commentary on the holy Bible--by various writers. 1092 pp. The Macmillan Co., New York. (Fig, p. 9.) There is a Jewish legend to the effect that at the moment of the Fall the leaves dropped off all the trees but the fig. (Cursing of the fig tree, p. 694.)

## Duncan, John S.

1825. Botano-theology. 112 pp. J. Murray, Oxford. (Fig, p. 69; banyan tree, p. 33.) In the fig the whole fruit is a juicy calyx; brief.

## Duns, John

- 1863-68. Biblical natural science. 2 vols. W. Mackenzie, London. (Fig, 1:134-37. 2 illus.; Ficus sycomorus, 2:283, 535, 584.) Use of fig leaves for aprons.

## Edersheim, Alfred

1909. The life and times of Jesus the Messiah. 2 vols. D. F. Randolph and Co., New York. (The parable of the barren fig tree, 2:246-48; 374-75.) Comments on parable.

## Ewing, Francis A.

1835. Bible natural history. 396 pp. Philadelphia. (Fig tree, pp. 121-23.) Comments on Biblical references.

## Farrar, Frederic W.

1875. The life of Christ. 472 pp. E. P. Dutton & Co., New York. (Fig, pp. 72, 338-40, 345.) Custom of pious Jews to study their crishna under a fig tree; comments on barren fig tree.

## Fletcher, Alexander

- Scripture natural history. 2 vols. Virtue and Yorsten, New York. (Fig, 1:269-70.) Refers to sycomore fig.

## Fletcher, L.

1911. Guide to exhibition of animals, plants and minerals mentioned in the Bible. 74 pp. British Museum Spec. Guide No. 5., London. (Fig, p. 27.)

## Fonck, Leopold

1900. Streifzüge durch die Biblische Flora. 167 pp. Herdersches Verlag, Freiburg im Breslau. (Feigenbaum, pp. 111-16.)

## Gaer, Joseph

1951. The lore of the Old Testament. 388 pp. Little, Brown and Co., Boston. (Fig, pp. 18, 50.) Fig as the forbidden fruit, the "Tree of Knowledge."

## Geikie, Cunningham

1893. Hours with the Bible. 6 vols. James Pott and Co., New York. (Fig, 4:256; 6:63.) Bible references.

## Goldmann, Felix

1911. La figue en Palestine à l'époque de la Mischna. 48 pp. Extrait de la Revue des Études Juives Ann. 1911 et 1912. Libr. Durlacher, Paris. Description of fig tree and plantings; the fruit; localities; kinds of figs; preservation; drying, fig cake; nutritive value; fig in commerce; sycomore fig.

## Gorrie, Dav.

1853. Illustrations of Scripture from botanical science. 160 pp. Blackwood, London. Cited by Moldenke, 1952.

## Grant, Elihu

1921. The people of Palestine. 271 pp. J. B. Lippincott Co., Philadelphia. Enlarged ed. of "Peasantry of Palestine," 1907. (Fig, pp. 28, 40, 81, 94, 139.) Folklore.

## Groser, W. H.

1888. Scripture natural history. 235 pp. Religious Tract Society, London. (Fig tree, pp. 100-7. Illus.)

## Hamilton, E.

1871. Botanique de la Bible. 196 pp. E. Fleurdelys, Nice. (Figuier, p. 45.)

## Harmer, Thomas

1787. Observations on divers passages of Scripture. 4 vols. J. Johnson, London. (Fig, 3:177-79.) Refers to Dr. Chandler who found figs on strings in Asia Minor, good and cheap; comments on lumps or cakes of figs.

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T. T. and J. Tegg, London. (Fig tree, pp. 106-9. Illus.)  
Comments on Biblical references.

Henslow, George

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London. (F. carica, pp. 13, 15, 16.)

Hiller, Matthaeus

1725. Hierophyticon, sive Commentarius in loca scripturae  
sacrae puae plantarum faciunt mentionem. 2 vols. in 1.  
J. Broedelet, Trajecti ad Rhenum. (De ficu et sycomoraea,  
pp. 150-74.) Critical comments on Scriptural passages  
with numerous cross references; in Latin.

Hoffmann, D. S.

1851. Lebens Jesu nach den Apokryphen. See: p. 179. Leipzig.  
Cited by Oskar Dähnhardt. Natursagen 2:25. 1909.

Hyvernat, Henry

1916. Fig and fig tree. In: The Jewish encyclopedia. 12 vols.  
Funk and Wagnall Co., New York. (Fig, 5:382.) Etymology;  
comments.

Jahn, John

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New York. Transl. from the Latin by Thomas C. Upham.  
(Fig trees, pp. 80-81.)

Jamieson, Robert, A. R. Fausset, and David Brown

1884. A commentary: critical, practical and explanatory of the  
Old and New Testaments. 4 vols. Fleming H. Revell, New  
York. (Fig, 2:36; 4:18.) Brief comments.

Keil, Carl F.

1887. Manual of Biblical archaeology. 2 vols. Transl. by Rev.  
Peter Christie. T. Clark, Edinburgh. (Fig lumps, in 2  
Sam. 16:1, probably mean dates.)

Kidder, Richard

- Demonstration of the Messiah. See: 2:38. Cited by Thaddeus  
M. Harris, 1833.

King, Eleanor

- 1941a. Bible plants for American gardens. 203 pp. The Macmillan  
Co., New York. (The fig, pp. 9-11. 2 illus.) General  
references.

- 1941b. Plants of the Holy Scriptures. New York Bot. Gard. Jour.  
42(495):50-65. See also: pp. 67-74. (Fig, pp. 52, 54, 68.  
2 illus.) Brief.



## Kinzler, A.

1884. Biblische Naturgeschichte. 307 pp. 9. Auflage. Verlag der Vereinsbuchhandlung, Stuttgart. (Der Feigenbaum, pp. 269-72. Figure 59.) Bible references, distribution, description of tree and fruit.

## Kitto, John

1841. Palestine: The physical geography and natural history of the Holy Land. 438 pp. C. Knight and Co., London. (Fig, pp. 213, 227, 228, 238, 268, 279.)
1850. Scripture lands. 276 pp. H. G. Bohn, London. (Fig, p. 153.)
1876. A cyclopedia of biblical literature. 3 vols. Adam and C. Black, Edinburgh. (Tenah, fig, 3:971-72.) Practice of sewing or pinning leaves together very common in East even today. Biblical comments by J. F. Royle.

## Knatchbull, Norton

1693. Annotations upon some difficult texts in all the books of the New Testament. 320 pp. P. J. Hayes, Cambridge. (Fig, p. 52.) The barren fig tree; "it was not a fig year."

## Knobel, August

1860. Die Genesis. 382 pp. S. Hirzel, Leipzig. (Feigenbaum, p. 45.) Not common fig but banana.

## Lemnius, Levinus

1595. Similitudinum ac paraboliarum quae in Bibliis ex herbis atque arboribus de sumuntur dilucida explicatio. 185 pp. Haeredum P. Roussin, Lugduni. (De ficu carica, Caput XIX: 73-76.) See transl.: An herbal for the Bible by Thomas Newton. 287 pp. London, 1857.

## McCheane, W. H.

- (?) Flowers and fruits of the Bible. 30 color pls. only. Day, London. (Fig, pl. 28, in color.) Quotes verse from Matthew 24:32.

## Mackay, Alastair I.

1950. Farming and gardening in the Bible. 280 pp. Podale Press, Emmaus, Penn. (Figs, pp. 72-77. Also Index.) Biblical references and comments.

## Mackie, G. M.

1898. Bible manners and customs. 175 pp. Fleming H. Revell Co., New York. (Fig, pp. 10, 11, 50-53.) Comments; crops of the tree.

Macmillan, H.

1902. The poetry of plants. 386 pp. Isbiter and Co., London.  
(Fig, pp. 207-10.) Parable of the fig tree; symbols of the fig.

Miller, Madeleine S., and J. L. Miller

1944. Encyclopedia of Bible life. 493 pp. Harper and Bros., New York. (Fig tree, p. 210.) Short, general.

Milton, John (1608-1674)

1909. Paradise lost. In: Complete poems of John Milton. The Harvard classics. P. F. Collier & Son, New York. (Fig tree, p. 291, book 9.) Leaf used for aprons not Ficus carica but F. indica, banyan tree.

Moldenke, Harold N.

1940. Plants of the Bible. Rev. ed. 190 pp. New York Bot. Garden, New York. (F. carica, pp. 68-73. Also see Index.) Comments.

1954. The economic plants of the Bible. Econ. Botany 8:152-63. (Fig, pp. 152-53.) Extracts from book, "Plants of the Bible."

Moldenke, Harold N., and Alma M. Moldenke

1952. Plants of the Bible. 328 pp. Chronica Bot. Co., Waltham. (Fig, see index; Ficus carica, pp. 103-6.)

Papini, Giovanni

1923. Life of Christ Transl. by Dorothy C. Fisher. 416 pp. Harcourt Brace and Co., New York. (The accursed fig tree, pp. 144-46.) The evil fig tree of Judaism deserved to be burned and from that time on no one will eat its tardy, withered fruit.

Pearce, Zachary

1732. The miracles of Jesus vindicated. 86 pp. J. Watts, London. (Fig, pp. 38-51.) A defense of the literal story of Jesus's causing the barren fig tree to wither away; detailed reply to a Mr. W.

Post, G. E.

1902. A dictionary of the Bible. 4 vols. Chas. Scribner's Sons, New York. James Hastings, editor. (Figs, 2:5-6.) Comments on parables; fig leaves used for aprons.

Pratt, Anne

1850. The plants and trees of Scripture. Revised by D. P. Kidder. 227 pp. Lane and Scott, New York. (Fig, pp. 81-86.) 1851 ed. 2 vols. in 1. The Religious Tract Soc., London. (The fig tree, 1:164-68.) General account.

Ricciotti, Giuseppe

1952. *Life of Christ*. (Popular ed.) Transl. by Alboa I. Zizzamia. 402 pp. Bruce Publ. Co., Milwaukee. (Fig tree, barren, pp. 237, 291.) Comments.

Rice, Edwin W.

1912. *Orientalisms in Bible lands*. (2d ed.) 300 pp. American Sunday-School Union, Philadelphia. (Figs, pp. 137, 145-47, 150.) Notes on culture, harvesting, drying; early and late figs; parables.

Robertson, John M.

1900. *Christianity and mythology*. 484 pp. Watts & Co., London. (Fig tree, p. 407.)

Robinson, Edward

1867. *Biblical researches in Palestine, 1838-1852*. 3 vols. John Murray, London. (Fig, 2:403.) Over source of fountain near Khan Minyeh stands a very large fig tree, hence the name, Ain-et-tin.

Rohr, J. B.

1740. *Phytotheologia*. 590 pp. Michael Blockberger, Frankfurt. (Fig, p. 90.) The Malabar fig tree.

Rosenmueller, Ernst F. K.

1840. *The mineralogy and botany of the Bible*. 342 pp. Engl. transl. of *Biblische Naturgeschichte*, by T. G. Repp and N. Morren. In: Vol. 27, *The Biblical cabinet, or, Hermeneutical, exegetical and philological library*. T. Clark, Edinburgh. (Fig, pp. 292-300.) Etymology; crops and kinds of fruit; comments.

Scherer, George H.

- The eastern colour of the Bible*. Nat. Sunday School Union, London. (Fig, pp. 30-32.) General.

Scheuchzer, Johann J.

- 1732-1737. *Physique sacrée, ou Histoire-naturelle de la Bible*. Tr. du latin.... Enrichie de figures en taille-douce, gravées par les soins de Jean André Pfeffel. 8 vols. P. Schenk, Amsterdam. (Figuier, 1:4, pl. 29; 4:125, pl. 378; 5:150; 7:196, pl. 464; 8:78-81, pl. 691.) German ed., *Kupfer-Bibel*. 4 vols. in 6. Augsburg und Ulm. Bible references; comments.

Seguier, Jean F.

1740. *Bibliotheca botanica*. Part 1. 450 pp. J. Nealume, Hage-Comitum. (Fig, p. 424.) Cited by O. Mattirollo, 1919, *N. Giorn. Bot. Ital.* 26:46-57.



Sepp, Johann N.

1846. Symbolik zum Leben Christi. See: Band 5:20. Der mythische Christus. Cited by Oskar Dähnhardt, Natursagen, 2:35. 1909.

[Shaw, Henry]

1884. Plants of the Bible at the Missouri Botanical Garden, St. Louis, 1884. 16 pp. Missouri Bot. Garden. (Ficus carica, pp. 6, 7.) Quotations from Scripture.

Short, A. K.

1938. Ancient and modern agriculture. 158 pp. The Naylor Co., San Antonio, Texas. (Fig, p. 47.) Bible references.

Skinner, John

1917. A critical and exegetical commentary on Genesis. 551 pp. Chas. Scribner's Sons, New York. (Fig leaves, pp. 76, 93.) Fig leaves most suitable for aprons.

Smith, David

1911. The days of his flesh. (9th ed.) 549 pp. Hodder and Stoughton, New York. (Fig tree, pp. 297, 395, 397.) Parables of barren trees; comments.

Smith, George A.

1931. The historical geography of the Holy Land. 744 pp. Hodder and Stoughton, London. (Fig trees, pp. 306, 309, 446, 565.) Mentioned with other fruit trees.

Smith, John

1878. Bible plants: their history with a review of the opinions of various writers regarding their identification. 256 pp. Hardwick and Bogue, London. (Fig, pp. 148-51. 1 figure.) Bible references; in Palestine, assumes character of a tree, seldom over 20 to 30 feet in height.

Smith, William

1866. The New Testament history. 675 pp. D. Appleton and Co., New York. (Fig, pp. 224, 257-58.)
1884. A dictionary of the Bible. 818 pp. Rev. and ed. by F. N. and M. A. Peloubet. Porter and Coates, Philadelphia. (Fig, pp. 192-93.) Ed. 1893. 776 pp. J. B. Burr Publ. Co., Hartford. (Fig, p. 193.) Mt. Olivet famous for its fig trees and still found there.

Talegon, Juan

1871. Flora Biblico-Poetico. 518 pp. Viuda e hijo de D. E. Aguado, Madrid. (Fig, pp. 331-43.) Bible references.

Taylor, Wm. M.

1896. The parables of our Saviour, expounded and illustrated. 445 pp. A. C. Armstrong and Son, New York. (The barren fig tree, Chap. 18, pp. 276-89.) Comments.

Temple, Augusta A.

1907. Flowers and trees of Palestine. 172 pp. Elliot Stock, London. (Fig, pp. 31, 93.) 1929 ed. 148 pp.

Thomson, William M.

1880. The land and the book. Popular ed. 592 pp. Harper and Bros., New York. (Figs, pp. 537-39.) Ain et Tin (Fountain of the Fig); comments on the barren fig tree.

Trench, Richard C.

1884. Notes on the parables of our Lord. 512 pp. D. Appleton and Co., New York. (The barren fig tree, Chap. 20, pp. 344-56.) Comments.

Tristram, H. B.

1873. Natural history of the Bible. (3d ed.) 518 pp. Society for promoting Christian knowledge, London. (Fig, pp. 350-53.) 1898 ed. (Fig, pp. 310-12.) Good description of tree and crops.

Universal Jewish Encyclopedia

1941. The Universal Jewish Encyclopedia, New York. 9 vols. (Fig leaf, 4:288.) Custom of covering naked figures with fig leaves not general until late Middle Ages.

Ursinus, Johannus H.

1663. Arboretum Biblicum. 621 pp. C. Gerhardus, Norimbergae. (De theena, ficu, pp. 424-55; illus. of *F. indica*, p. 424.) Biblical references and comments, in Latin.

Van Barneveld, Mary

1935. Plants and flowers found in the Bible and at home in the southwest. 16 pp. Paul J. Howard's Hort. Establishment, Los Angeles. (Fig, p. 8.) Brief.

Van-Lennep, H. J.

1875. Bible lands--their modern customs and manners. 832 pp. Harper and Bros., New York. (Fig, pp. 136-40.) Good account.

Westmacott, William

1694. Theolobotanologia; sive, Historia vegetabilium sacra; or a scripture herbal. 232 pp. T. Salusbury, London. (Fig, pp. 62-65.) Bible references; short account of the fig in England, its virtues and uses; comments on barren fig tree.

White, Andrew D.

1896. A history of the warfare of science with theology in Christendom. 2 vols. D. Appleton and Co., New York. (Fig, 2:248-49.) Refers to Ulrich Setzen, 1806, regarding myths and legends.

Young, John

1848. Trees and flowers in Scripture. Cited by H. Moldenke, 1952, *Plants of the Bible*, p. 270.
1849. Scripture natural history. 158 pp. Illus. Thos. Dean & Son, London. (The fig tree, pp. 39-44.) Confuses common fig, sycamore, and banana; Bible references; "leaves of the fig tree are often six feet long and two feet broad."

#### LEGENDS, FOLKLORE, AND POETRY

Aigremont

1908. Volkserotik und Pflanzenwelt. 2 vols. in 1. A. S. Hallescher Verlag für Lit. und Musik, Gebr. Trensinger, Halle. (Feige, 1:74-78; 2:93.) History and folklore.

Anonymous

1890. Cultus arborum. 111 pp. Privately printed, London. (Fig, pp. 4, 28, 41.) Near Cairo, where Virgin Mary washed her infant's clothes, a lamp kept burning in hollow of an old fig tree.
1892. Antiquities of Herculaneum. Bronzi, tab. XCIV. According to R. P. Knight, the above shows a small Priapic figure, the expression of "far la fica."

Archilochus (714-676 B.C.)

1931. In: *Elegy and iambus*. 2 vols. G. P. Putnam's Sons, New York. Archilochus, 2:82-209, by John M. Edmonds. (Fragment 17, p. 107: "As the fig tree on its rock feeds many crows, so doth the simple Pasiphile receive strangers"; Fragment 51, p. 123: "Heed not Paros and those figs and the life of the sea"; Fragment 114, p. 169: "Fig nibbler is used by Archilochus and Hipponax of those who eat cheap"; Fragment 194, p. 207: "Shall I not choose figs before wild pears", meaning sweet before sour.)

Aristophanes (448-385 B.C.)

1910. *The Acharnians of Aristophanes*. Transl. by B. B. Rogers. 237 pp. George Bell and Sons, London. (Figs, lines 805-10, p. 125; fig tree, line 997, p. 155.)  
"Eh but ye're squealing bravely for the figs"

1927. The peace. In: Aristophanes in English verse, by Arthur S. Way. Vol. 1: 251-306. Macmillan and Co., London. (Page 302, line 1248; "there's your balance ready to hand, for weighing figs to labourers on your land.")

1930. The birds of Aristophanes. Transl. by B. B. Rogers. 305 pp. G. Bell and Sons, London. (lines 590, 591, p. 77.)  
 "No more shall the mite and the gall-making blight,  
 The fruit of the fig tree devour,  
 Of thrushes one troop on their armies shall swoop,  
 And clear them all off in an hour."

Baker, Arthur E.

1914. A concordance to the poetical and dramatic works of Alfred, Lord Tennyson. 1212 pp. The Macmillan Co., New York. (Fig, p. 211.) Three references with quotations.

Bartlett, John

1937. Familiar quotations. 1578 pp. (11th ed.) Little, Brown and Co., Boston. (Fig, see index.) Several quotes. 1950 ed. See p. 1417.

Basile, Giovanni B.

1927. Il pentamerone; or The tale of tales. Transl. by Richard Burton. 455 pp. Boni and Liveright, New York. (Fig, pp. 126, 193, 279.) Mentioned only.

Benham, W. G.

1907. A book of quotations, proverbs and household words. 1256 pp. J. B. Lippincott Co., Philadelphia. (Fig, pp. 114, 336, 412, 538, 765, 840.) Several quotes.

Berrey, L. V., and M. Van der Bark

1947. The American Thesaurus of slang. 1174 pp. T. Y. Crowell Co., New York. (Fig, see index.)

Bethel, Slingsby (1617-1697)

1691. The providence of God, observed through several ages towards this nation in introducing the true religion. 60 pp. R. Baldwin, London. (Fig, p. 33.) "Fear of a dose or a fig."

Billerbeck, Julius

1824. Flora classica. 285 pp. J. C. Hinrichsche, Leipzig. (Ficus carica, pp. 247-48.) Very brief account of fig and caprifig with cross references.

Böckh, August

1886. Die Staatshaushaltung der Athener. 2 vols. G. Reiner, Berlin. Cited by Salomon Reinach, 1908.



**Boetticher, Karl**

1856. *Der Baumkultus der Hellenen*. 544 pp. Weidmannsche Buchhandlung, Berlin. (Feige, pp. 128, 286, 437-40.) Legends.

**Brewer, E. C.**

1898. Dictionary of phrase and fable. 1440 pp. H. Altemus Co., Philadelphia. (Fig, p. 460.) Full fig; not worth a fig; Fig Sunday.

**Briffault, Robert S.**

1927. *The mothers. A study of the origins of sentiments and institutions*. 3 vols. The Macmillan Co., New York. (Fig, 3:296.) Comments on use of leaves as clothing; "the hideous use of leaves on statues is quite recent practice introduced by the Jesuits in the seventeenth century."

**Bullen, A. H. (ed.)**

1887. *England's Helicon*, a collection of poems; publ. in 1600. John C. Nimmo, London. *The shepherd's slumber*, pp. 222-25. (Fig, p. 225.)

"Indeed", quoth Wit,----

"And where you see these women nice

And looking to be sought,

With scowling brows their follies check,

And so give them the fig."

**Buttes, Henry**

1599. *Dyets dry dinner*: consisting of eight several courses.  
1. Fruits.... All served in after the order of time universal. T. Creede, for W. Wood, London. (Figs, p. B2.)  
Forbidden fruit not an apple but a fig.

**C., R.**

1616. *The time's whistle: or A new daunce of seven satires, and other poems*. 178 pp. Early English Text Society by N. Trübner & Co., 1871, London. Society original series No. 48. (Fig, p. 39. Satire 3 lines, 1151-54.)  
"But now this boy, which stands as a crosse-barre  
Twixt him and home, doth all his fortunes marre.  
But long he shall not see, if figs of Spaine,  
Or pils of Italy their force retaine."

**Cervantes Saavdra, Miguel de**

1909. The first part of the delightful history of the most ingenious knight Don Quixote. Transl. by Thomas Shelton. 545 pp. P. F. Collier and Sons, New York. (A fig for your great Captain, Part 1, Book IV, Chap. 5.)

Cesaresco, Evelyn L. H.

1911. The outdoor life in Greek and Roman poets and kindred studies. 290 pp. The Macmillan Co., New York. (Fig. pp. 13, 33, 35.) Forty fig trees given Odysseus; plant fig trees all around the estate.

Chiera, Edward

1922. A Sumerian tablet relating to the fall of man. Amer. Jour. Sem. Lang. 39:40-51. (Reference to "Gis-gi-tug-gi" ...the tree which establishes the use of clothing, pp. 41, 42, 47, 48. Significance in relation to the story of the fig tree, p. 49.)

Christy, Robert

1890. Proverbs, maxims, and phrases of all ages. 2 vols. G. P. Putnam's Sons, New York. (Fig, 1:346.)  
"You are like fig-tree fuel: much smoke and little fire."

Coleridge, Samuel T.

1884. Coleridge works. Biographia literaria. Harper and Bros., New York. (Sycophant, Vol. 3:286.) "I here use the word sycophant in its original sense, as a wretch who flatters the prevailing party by informing against his neighbors, under the pretense that they are exporters of prohibited figs or fancies."

Collins, John

1823. A dictionary of Spanish proverbs, compiled from the best authorities in the Spanish language, transl. into English. 391 pp. S. Brooke, London. (Fig, pp. 12, 64, 88, 147, 353.) "Water to the fig, and wine to the pear." "A fair woman in cold weather is not worth a fig." "In the time of figs there are no friends." "Do not drink after figs."

Cook, A. B.

1907. Sycophant. Classical Rev. 21:133-36. (Figs, pp. 133, 134, 136.) A scholarly account of the word, its derivation and meaning.  
1914. Zeus--a study in ancient religion. 3 vols. Univ. Press, Cambridge. (Fig, 2:291, 489, 672, 964, 1022, 1092, 1103.) Legends.

Copley, Anthonie

1883. A fig for fortune. 84 pp. Spenser Society, issue No. 35, Manchester. First pr. by Richard Iohnes for C. A., 1596, London. A poem; word fig used in contempt.

Creuzer, Friedrich

1842. Symbolik und Mythologie der alten Völker, besonders der Griechen. 4 vols. Carl W. Leske, Leipzig. (Feigenbaum, 3:332.) Legend.

Dähnhardt, Oskar

- 1907-1912. *Natursagen*. 4 vols. B. G. Teubner, Leipzig und Berlin. (Feigenbaum, 2:25, 34, 35, 46, 208, 236-37.)  
Legends; folklore.

Dante Alighieri

1891. *The Divine Comedy of Dante Alighieri*. 193 pp. Transl. by Charles E. Norton. Houghton, Mifflin & Co., Boston. (Canto XXV, p. 133.) "At the end of his words the thief raised his hands with both the figs, (gesture of contempt) crying, 'Take that, God! for at thee I square them.'"

Deissmann, Adolf

1927. *Paul, a study in social and religious history*. 323 pp. George H. Doran Co., New York. (Fig, p. 38.) "Fig tree also cannot be taken as the characteristic tree of the south, for it flourishes in the open in Heidelberg and Oxford and even in Norderney and Heligoland."

Dickinson, William

1859. *A glossary of the words and phrases of Cumberland*. 138 pp. J. R. Smith, London. (Fig, p. 36.) "He duzzent care a feg."

Dierbach, Johann H.

1833. *Flora mythologica; oder, Pflanzenkunde in Bezug auf Mythologie und Symbolik der Griechen und Römer*. 218 pp. J. D. Sauerlander, Frankfurt am Main. (Die Feige des Dionysos, pp. 112-14.) Account of legend; refers to Winkelmann, Creuzer and others.

Douce, Francis

1807. *Illustrations of Shakespeare and of ancient manners*. 2 vols. Longman, Hurst, Rees, and Orme, London. (Figo, 1:492-501. Illus.) Good discussion of origin and use of the expression, "making the fig." New ed. 1839. 631 pp. Thomas Tegg, London. (Fig, pp. 302-7.)

Duschak, M.

1870. *Zur Botanik des Talmud*. 136 pp. I. Neuer, Pest. (Feige, pp. 74, 79.) Good comments; kinds of figs; oleification; harvest.

Du Meril, Edelestand P.

1869. *Histoire de la comédie ancienne*. 2 vols. Didier et Cie., Paris. (Fig, 1:485.) Phallic symbolism of figs; brief.

du Triez, Robert

1563. *Les ruses, finesses, et impostures des esprits malins*. ----91 leaves. N. Lombart, Cambray. (Fig, leaf 25.)  
Legends.

Echtermeyer, Ernst T.

1835. Proben aus einer Abhandlung über Namen und symbolische Bedeutung der Finger bei den Griechen und Römern. Halle. (Feigen, p. 32.) Cited by A. B. Cook, Classical Rev., 1907.

Eitrem, Samson

1910. Hermes und die Toten. Norske Vidensk.-Akad. i Oslo Forhandl. No. 5. (Fig, p. 25.) Phalli made of cypress and fig wood.

Ellacombe, Henry N.

1877. Plant lore of Shakespeare. Garden 11:237, et seq. (Figs, p. 337.) Quotations from Shakespeare's plays;
1896. The plant-lore and garden craft of Shakespeare. 383 pp. Edward Arnold, London. New ed. Illus. (Figs, pp. 94-96. 1 illus.) Twelve references given to figs, fico, figo in Shakespeare's plays.

Elworthy, Frederick T.

1895. The evil eye. 471 pp. John Murray, London. (Fig, pp. 255, 275, 325.) The gesture, "making a fig"; fig a phallic symbol.
1900. Horns of honour and other studies in the by-ways of archeology. 315 pp. John Murray, London. (Fig, p. 176, figures 99, 100.) "Mano in fica" illustration and description; such charms worn by Roman infants of today.

Erasmus, Desiderii

1747. Colloquia familiaria. 870 pp. D. Bartholomaei, Ulmae. (Ficum, p. 258.) "We call a fig a fig and a skiff a skiff."

Fairclough, H. R.

1930. Love of nature among the Greeks and Romans. 270 pp. Longman, Green and Co., New York. (Fig, pp. 52, 55.) References to Odyssey and Aristophanes.

Florio, Giovanni

1591. Giardino di 'ricreatione. Thomaso Woodcock, Londra. (Fico, p. 5.)

Folkard, Richard

1884. Plant lore, legends and lyrics. 610 pp. Sampson Low, London. (Fig, pp. 14, 15, 49, 93, 159, 334-36.) Use of fig leaves for aprons; legends.



Forlong, J. G. R.

1883. *Rivers of life*. 2 vols. B. Quaritch, London. (*Ficus*, fig, 1:35, 74, 75, 76, 79; 2:60.) Phallic significance of fig; sacredness of tree.

Frazer, James G.

1905. *Lectures on the early history of kingship*. 309 pp. Macmillan and Co., London. 1920 ed., entitled: *The magical origin of kings*. 309 pp. Macmillan and Co., London. (Fig, pp. 269-72.) Folklore; practice of capriciousness; legends.
1935. *The golden bough, a study in magic and religion*. 12 vols. The Macmillan Co., New York. (See index.) Legends.

Friedrich, J. B.

1859. *Die Symbolik und Mythologie der Natur*. 738 pp. Verlag der Stahelschein Buch und Kunsthandlung, Wuerzburg. (Feigenbaum, pp. 317-21.)

Fulwell, Ulpian

1579. *The first part of the eighth liberall science entituled, Ars adulandi, the art of flatterie, newly corrected and augmented*. Richard Jones, London. The first Dialogue, last two lines:  
"And thus farewell, I will returne to Lady Hope agayne;  
And for a token I thee sende, a dottinge figge of  
Spainne."

Gallop, Rodney

1936. *Portugal, a book of folk-ways*. 291 pp. Univ. Press, Cambridge. (Fig, pp. 60, 64.) Fig amulets; phallic significance.

Gassendi, Pierre

1657. *The mirror of true nobility and gentility, being the life of the Reverend Nicolaus C. Fabricius, lord of Peiresk*. Englished by W. Rand. 4 books. J. Streeter, London. (Fig, p. 44 of Book 4.) "Adam's fig tree whose fruit Piereskus conceived to be one of those which the spies brought back that went to view the land of Canaan."

Gebhard, Viktor

1926. *Die Pharmakoi in Ionien und die Sybakchoi in Athen*. 118 pp. H. Böes Söhne, Amberg. (Fig, pp. 69-70.) Phallic symbolism of the fig.

Gide, André

1949. The fruits of the earth. 293 pp. Transl. by Dorothy Bussy. A. A. Knopf, New York. (Fig, pp. 83-84.)  
 "Sing now the fig, Simiane, Because its loves are hidden.  
 I sing the fig, said she, Whose loves are hidden,  
 Whose flowering is folded away.----  
 Flower without beauty; fruit of delights;  
 Fruit that is but the ripened flower."

Girard, Paul

1907. Quelques réflexions sur le sens du mot "sycophante."  
 Revue des Études Grecques 20:143-63. Good discussion and meaning of word sycophant.

Goldsmith, Elizabeth E.

1924. Life symbols as related to sex symbolism. 455 pp. G. P. Putnam's Sons, New York. (Fig, p. 419.) A sacred tree believed to combine both masculine and feminine attributes and held in especial veneration as an emblem of life. Its tri-lobed leaf suggesting the masculine triad became the symbolic covering in representation of nude figures.

Goodland, Roger

1931. A bibliography of sex rites and customs. 752 pp. George Routledge and Sons, London. (Symbolism of fig tree, p. 691.) List of 35 authors.

Grindon, Leopold H.

1853. The sexuality of nature. 73 pp. Fred Pitman, London. (Fig-tree and wood, p. 74.)  
 1883. The Shakespeare flora. 318 pp. Palmer and Howe, Manchester. (Fig, pp. 191-92.) From *Midsummer Night's Dream*: "Feed him with Apricocks and mulberries, With purple grapes, green figs, and mulberries." From time immemorial the fig has been a metaphor for the worthless and the mean.

Gubernatis, Angelo de

1882. La mythologie des plantes, ou, Les légendes du règne végétal. 2 vols. C. Reinwald, Paris. (Caprifiguier, 2:49-50; figuier, 137-43.) Legends of the caprifig and fig; includes Ficus ruminalis, Thargelia, Bacchus, Dionysos, phallic significance.

Hadzsits, G. D.

1936. Vera historia of the Palatine Ficus ruminalis. Classical Philol. 31:305-19. Etymology; legends.  
 "Behold next I see Contempt marching forth  
 Giving mee the fico with his thombe in his mouth."  
 From *Wits Miserie*, 1596, by Thomas Lodge.

Halliwell, James O.

1924. A dictionary of archaic and provincial words. 2 vols. in 1. (7th ed.) 960 pp. George Routledge and Sons, London. (Fico, fig, pp. 355, 356.) Fico a term of reproach.

Hammer, Meredith

1633. The chronicle of Ireland. 223 pp. In: The historie of Ireland, by M. Hammer, E. Campion, and E. Spenser. Soc. of Stationers, Dublin. (Figge, p. 115.) "If hee threaten as an enemie, a figge for his Monarchie."

Harrison, Jane E.

1908. Prolegomena to the study of Greek religion. (2d ed.) 682 pp. Univ. Press, Cambridge. (Pharmakos; figs, pp. 95-114.) Good discussion of Pharmakos; festivals of Plynteria and Thargelia.

Hazlitt, W. C.

1882. English proverbs and proverbial phrases. (2d ed.) 532 pp. Reeves and Turner, London. (Fig, pp. 327, 395, 502.) "Peel a fig for your friend and a peach for your enemy", and others.

Hewitt, John F.

1907. Primitive traditional history. 2 vols. J. Parker and Co., London. (Fig, 1:16, 176, 295-96, 302, 796.) Legends.

Hippolytus

1881. Lagarde (see reference in section on Europe) states that Hippolytus in Catene des Nicophorus, 1:87, names the fig leaves as the symbol of sin; a fig leaf laid on the skin to cause itching; Adam therefore would have foretold his own future mental itching, meaning, the consciousness of sin follows sin.

Hojeda, Diego de (1570-1615)

1935. La Christiada-text from a hitherto unpublished manuscript. 522 pp. The Catholic Univ. of America, Washington, D.C. (Higuera, p. 271, line 29.) Citation by Wm. Creizenach, 1875, p. 8, to the original manuscript of 1831, suggests that Judas hung himself on a fig tree.

Hyamson, Albert M.

1922. A dictionary of English phrases. 365 pp. George Routledge and Sons, London. (Fig, p. 142.) Various phrases; Fig Sunday.

Jahn, O.

1855. Ueber den Aberglauben des bösen Blickes bei den Alten. Säch. Akad. der Wiss. Leipzig Phil.-Hist. Klasse Ber. 7:28-110. (La fica, phallic symbol, pp. 80-81. 2 illus.)

Jonson, Ben

1941. Ben Jonson. Ed. by C. H. Herford. 7 vols. Clarendon Press, Oxford. (Figg-tree, 7:294.) "The Figg-tree wild, that growes on tombes."

Jorio, Andrea de

1832. La mimica degli antichi investigata nel gestire Napoletano. 380 pp. Stamp. e Cartiera del Fibreno, Napoli. (Fica, mano in fica, pp. 155-59. Tav. 7.) Account of the expression, comments, color plate showing its use.

King, Padriac

1931. Wicked Herculaneum's hidden shame uncovered by archeologists. San Francisco Chronicle, Sunday, Jan. 17. ("Crestes, sweet as tender figs thou art welcome.")

King, R. J.

1863. Sacred trees and flowers. Quart. Rev. 114:210-50. (Figs, pp. 213-14.) Refers to Ficus sycomorus and F. religiosa.

Kleinpaul, Rudolf

1893. Sprache ohne Worte. 456 pp. W. Friedrich, Leipzig. (Feige, pp. 273-76.) Explanation of the expression, "Far la fica", "Faire la figue".

Knight, Richard P.

1865. Discourse on the worship of Priapus. Privately printed, London. (Fig, p. 150, an obscene gesture; p. 235, referred to in "A Trial of Witches".

1892. The symbolical language of ancient art and mythology. New ed. by Alex. Wilder. 452 pp. J. W. Bouton, New York. (Fig, pp. 28, 29-30.) Phallic significance; "far la fica".

Krauss, Friedrich S.

1907. Das Geschlechtsleben in Glauben, Sitte und Brauch der Japaner. 161 pp. Deutsche Verlagsactien Gesellschaft, Leipzig. (Feige aus Kandiszucker, p. 39.) Autumn festival in Kyoto.

[Langland, William] (1330-1400?)

1887. In: The vision and creed of Piers Ploughman, by Thomas Wright. 2 vols. Reeves and Turner, London. (Ne on croked kene borne kynde fygys wexe.)

Lean, Vincent S.

- 1902-1904. Lean's collectanea of proverbs, etc. 4 vols. J. W. Arrowsmith, Bristol. (Fig, 2:214, 349, 416, 631; 3:18, 309, 384.) Several quotations.



Leite de Vasconcellos, Jose

1882. Tradições populares de Portugal. 316 pp. Clavel and Co., Porto. (Figs, p. 107.) Short; references to legends.

1925. A figa - estudo de etnographia comparativa. 136 pp. 63 illus. Aranko & Sobrinho, Porto. Good account with cross references.

Leon

Africa. Cited by R. Folkard, 1884, p. 15.

Leti, Gregorio

1670. Il Cardinalismo di Santa Chiesa; or, The history of the Cardinals of the Roman Church. Englished by G. H. London. (See III(1):233. "Some report he was poyson'd with an Italian fig.")

Lodge, Thomas

1596. Wits' Miserie. 111 pp. Adam Islip, London. (Fig, p. 23.)

Loveman, Robert

1901. April rain. Harper's Mag. 102:982.  
"A health unto the happy,  
A fig for him who frets."

Ludwig, Emil

1937. Cleopatra, the story of a queen. Transl. by Bernard Miall. 342 pp. The Viking Press, New York. (Fig, p. 329.) A basket of figs for the sick queen.

M'Ilvaine, Joshua H.

1847. The tree of the knowledge of good and evil. 244 pp. M. W. Dodd, New York. (Of the girdle of fig leaves, pp. 141-58.) Treats of origin of shame.

Mackenzie, Donald A.

1926. The migration of symbols. 219 pp. Alfred A. Knopf, New York. (Fig, p. 173.) Fig milk.

Macrobius, Ambrosius T.

1585. Somnium Scipionis, eiusdem conuiviorum Saturnaliorum. 578 pp. Privilegis Caesaris, Paris. (Ficus, in Saturnal 3:20:1, p. 344.) Short account in Latin.

Magnusson, Finnur

1824-1826. Eddalaeren og dens Oprindelse. 4 vols. Kjobenhavn. (Fig, 2:196, 257.) Phalli made from fig wood.

Mannhardt, Johann

1875. Wald-und Feldkulte. 2 vols. Gebrueder Borntraeger, Berlin. (Feigenbaum, 1:296; 2:37, 116.) Brief.

Mariette, Auguste

1870-1875. Denderah: description générale du grand temple de cette ville. 6 vols. A. Frank, Paris. (Ficus carica, I, pl. 24; 6:76, 90, 136.) References are in relation to word lists and define "sacred tree" as the fig tree; on page 136 is the description of pl. 24, vol. 1, which includes a representation of the "sacred tree".

Marprelate, Martin

1589. These Martinianae, that is, certaine demonstrative conclusions set down and collected by the Reverend Martin Marprelate. Unnumbered pages. Pr. by the assignes of Martin Junior, London. (Figge, on first page of Epilogue, line 25.) "Speake then, good nuncles, have you closely murdered the gentleman in some of your prisons? Have you strangled him? Have you given him an Italian Figge?"

Melbancke, Brian

1583. Philotimus. The warre betwixt nature and fortune. 224 pp. R. Warde, London. (Figboy, mentioned on signature S, recto, p. 132.)

Meurs, Johann

1642. Arboretum sacrum. 140 pp. Elseviriana, Lugduni Batavorum. (Ficu, p. 53-57.) References to ancient writers.

Molza

Cited by Aigremont (1908). The Italian poet, Molza, has sung of the fig in a didactic poem.

Mommsen, August

Heortologie. (Fig, see p. 417.) Cited by V. Hehn, 1894, Kulturpflanzen----, p. 97. Two Thargelia, led to death, hung with figs, and scourged with fig rods.

Morris, William

1868. The earthly paradise, a poem. 676 pp. F. S. Ellis, London. (Fig, p. 552. In: The watching of the falcon.)  
"In the orchard hangs aloft  
The purple fig, a growing soft."

Mule, Johannes

1739. De fica arefacta meditationes. (Diss.) 8 pp. D. Hauniae.  
See Bradley Bibliography 2:149. Bible references to fig.

Murr, Joseph

1890. Die Pflanzenwelt in der griechischen Mythologie. 323 pp. Wagner'schen Univ.-Buchhandlung, Innsbruck. (Feigenbaum, pp. 31-35.) Origin; symbolic nature; legends.

Nash, Thomas

1599. Nashes Lenten stufte, containing the description and first procreation and increase of the towne of Great Yarmouth in Norfolke. 42 leaves. N. L. and C. B., London. Cited by Vincent S. Lean, 3:309. 1904.

Pais, Ettore

1906. Ancient legends of Roman history. Transl. by Mario E. Cosenza. 336 pp. Swan Sonnenschein & Co., London. (Fig, pp. 47-59.) F. ruminalis; legends.

Paniagua, Jean-Didier A.

1926. L'âge du renne. 287 pp. Paul Catin, Paris. (Figs, pp. 243, 254-55, 246.) Ithyphallic statuette. Cited by Roger Goodland, 1931, p. 691.

Paton, W. L.

1907. The Pharmakoi and the story of the fall. Rev. Archeol. (ser. 4) 9:51-57. (Caprification, pp. 51-54; fig leaves, pp. 55, 56.) Good account; story of Adam and Eve expelled from Eden.

Philpot, Mrs. J. H.

1897. The sacred tree; or The tree in religion and myth. 179 pp. The Macmillan Co., New York. (Fig, pp. 33, 45, 58, 76, 86.) Image of fig tree wood; fig offerings to deities; F. ruminalis.

Pitre, Guiseppe

1889. Usi e costumi, credence e pregiudizi del popolo Siciliano. 4 vols. L. Pedone L. di Carlo Clausen, Palermo. (Fico, 3:244-45.) Sicilian proverbs and folklore.

Plutarch

1896. De Curiositate. Transl. by Queen Elizabeth. In: Early English Text Soc. 113:121-41. (Sycophant, Chap. 16, line 7, 17.) "Of like cause the' say were Sicophantz cald and so surnamed."

Porteous, Alexander

1928. Forest folklore. 319 pp. George Allen & Unwin, London. (Fig, pp. 119, 178, 210, 211, 227.) Superstitions; legends.

Praed, Rosa C.

1894. Outlaw and law maker. See: 1:103. D. Appleton and Co., New York. Running around to the store for a fig of tobacco (a small piece or amount). Cited by Henry Bradley, 1901, A new English dictionary, Vol. 4:200.



Preston, Helen G.

1903. Rural conditions in the Kingdom of Jerusalem during the twelfth and thirteenth centuries. 59 pp. Avil Printing Co., Philadelphia. (Fig, p. 9.) Brief.

Ray, John

1737. Complete collection of English proverbs. (3d ed.) 150 pp. J. Hughs, London. (Page 41: peel a fig for your friend and a peach for your enemy. From Italian.)

Reinach, Saloman

- 1905-1923. Cultes, mythes et religions. 5 vols. E. Leroux, Paris. (Les sycophantes et les mystères de la figue, 3:92-118. 1908.) See also: Sycophantes. In: Revue des études Grecques 19:335-58. 1906. Excellent account and etymology of the word sycophant.

Reinach, Saloman, and Michel Breal

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## Sepp, Johann N.

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## Sittl, Carl

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1883. Rejected addresses, or, The new theatrum poetarum. 254 pp. George Routledge and Sons, London. 1st ed. 1812. (Fig, in Johnson's Ghost, p. 141.) "In the name of the Prophet, figs."

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 From Eve's fig leaf down to the petticoat,  
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 Quotes also from various other authors.

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1924. The idylls of Theocritus, transl. by J. H. Hallard. (4th ed.) 217 pp. George Routledge and Sons, London. (Idyll 25, p. 169, fig boughs; Epigram, p. 188.) "And then as when masterful wainwrights, bend soft fig boughs warmed in the fire as wheels for a chariot."  
 "Goatherd, if thou the oak-set winding path  
 Wilt follow, thou shalt find a fig wood statue,  
 New wrought, unbarked, obscene, earless,  
 But fit to do the child-begetting deed of Cyprus."

Theut, Andrew

1657. Lives of twenty selected persons. 73 pp. In: The lives, by Thomas North. Abraham Miller, London. (Fig, p. 45.) "Tamberlain (on purpose to usurpe his Kingdom) did cause a fig to be given him, and after his death married his widow." Tamberlain, Emperor of the Tartars.

Thiselton-Dyer, Thomas F.

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Trench, Richard C.

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Vanbrugh, John, and Colley Cibber

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Wall, Otto A.

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Watson, John T.

1854. Dictionary of poetical quotations. 506 pp. Lindsay and Blakiston, Philadelphia. (Fig, p. 277.) "Where with huge figs the branches bend." From Gay's Fables.

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Hayek, A.

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1744. Ficus ejusque historia naturalis et medica. (Diss.) (Cornelius Hegardt.) 28 pp. 1 pl. Upsaliae. Also in: Amoenitates Acad. 1:23-54. 1749. Fecundation theory of fertilization; Ficus, Caprificus, Chamaeficus, Erinosyce.
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## Makins, Frederick K.

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- 1932-1933. *Flora of Syria, Palestine and Sinai*. 2d ed. by J. E. Dinsmore. 2 vols. Amer. Press, Beirut. (*Ficus carica*, 2:515.) Varieties *genuina*, *riparum*, *rupestris*, *globosa*; *F. pseudo-sycomorus*.

Rehder, Alfred

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- 1864-1868. Essai de phytomorphie; ou Études des causes qui déterminent les principales formes végétales. Germer, Paris. 2 vols. (Fig, 1:323, 389-90. Taf. 12, figure 86.) Teratology; calls it "protophytogene inflorescence."

Freisleben, R.

1933. Untersuchungen ueber Bildung und Auflö'sung von Cystolithen bei den Urticales. Flora 127(n.s. 27):1-45. (Ficus carica, pp. 3, 5.) Good article with bibliography.

Gaertner, Joseph

- 1788-1807. De fructibus et seminibus plantarum. 3 vols. C. F. E. Richter, Lipsiae. (Ficus carica, 2, pt. 1:66; pt. 2, taf. 91.) Description of fruit, seeds, flowers, outline drawing of fruit and flowers.

Gasparrini, Guglielmo

1845. Ricerche sul la natura del caprifico e del fico, e sulla caprificazione. Accad. delle Sci. Fis. e Mat. Napoli Rend. 4(23):321-412. Tav. 1-8. Also: 96 pp. 8 tav. Aquila di V. Puzzielli, Napoli. Transl. of part on caprification in: Jour. Roy. Hort. Soc. 3:185-216. 1848. Also: California State Board Hort. Rept. 1891(92):234-59. General; Ficus, F. carica foemina; and Caprificus, F. carica androgyna.
1846. Note sur l'origine de l'embryon dans les graines des plantes phanerogames. Ann. des Sci. Nat. Bot. (3d ser.) 5:305-12. (Figuier, pp. 306-7.)

1848. Nuove ricerche sopra alcuni punti di anatomia e fisiologia spettanti alla dottrina del fico e del caprifico. Accad. delle Sci. Fis. e Mat. Napoli Rend. 7:394-417. Tav. 3.

Giannuoli, Sebastiano

1947. Osservazioni su Ficus carica nell' anno 1946. Nuovo Giorn. Bot. Ital. 54:432-65. Illus. Abstracted in: Biol. Abs. 23:2553. Growth cycle and bud differentiation at Bari.
1949. Istologia e ritmo di accrescimento del legno di Ficus carica. Nuovo Giorn. Bot. Ital. 56:188-97. Illus. Abstracted in: Biol. Abs. 25:827. So-called annual wood rings do not exist in the fig-tree stem.

Gluschenko, G. I.

1953. Splitting up of cells in the petiole of a fig leaf. (In Russian.) Zhur. Obsch. Biol. 14:313-19.

Godron, D. A.

1878. Etudes sur les prolifications. Acad. Stanislas Mem. 28, (4 Ser.) Tome 10:274-342. Nancy. Cited by Penzig, 1922.

Goebel, K.

1887. Outlines of classification and special morphology of plants. Clarendon Press, Oxford. 490 pp. Transl. by H. E. F. Garnsey, rev. by I. B. Balfour. (Inflorescence of Ficus carica, p. 404. Figure 335.) Figure only.

Golenkin, M.

1894. Beitrag zur Entwicklungsgeschichte der Infloreszenzen der Urticaceen und Moraceen. I. Flora 78:97-132. (Ficus, pp. 124-26.) Mostly species other than F. carica.

Govindu, H. C., C. S. Venkatesh, and K. M. Safeeulla

1947. Notae teratologici. Jour. Mysore Univ. Sect. B. 7(1): 13-21. Abstracted in: Biol. Abs. 22:2533. Proliferation of an inflorescence of Ficus carica in the equatorial region.

Gray, Asa

1879. Gray's botanical text-book. Vol. 1. Structural botany or organography on the basis of morphology. 442 pp. Illus. Ivison, Blakeman, Taylor, and Co., New York. (The syconium or hypanthodium, the fig fruit, p. 303. Figures 657-59.) Fig is to a mulberry what a rose hip is to a strawberry.

Gueguen, F.

1905. Sur la structure et le mode de formation des monstruosites dites "figues doubles". Soc. Bot. de France Bul. 52:47-49. Illustration shows double fig, the upper one protruding from apex of lower; second shows protruding flowers; notes on teratology.

Guillard, Achille

1847. Observations sur la moelle des plantes ligneuses. Ann. des Sci. Nat. Bot. (3d ser.) 8:295-325. Pl. 19. (Figuier, p. 297. Pl. 19, figure 29.) In certain plants such as fig, the diaphragm is produced at each leaf.

Gustafson, Felix G.

1942. Parthenocarpy: natural and artificial. Bot. Rev. 8:599-654. (Ficus carica, pp. 610, 641.) Stimulative and vegetative.

1950. The role of hormones in fruit development. Amer. Nat. 84:151-59. (Fig, p. 157.)

## Haberlandt, G.

1914. Physiological plant anatomy. 755 pp. Macmillan and Co., London. Transl. by M. Drummond. (*Ficus carica*, pp. 338, 536, 537. Figure 217.) Proteolytic enzymes in latex; cystoliths.

## Harris, W. B.

1950. Growth responses with chlorophenoxyacetic acids in Smyrna figs. Australia Inst. Agr. Sci. Jour. 16:71-72. Rapid growth and maturity secured but quality unsatisfactory.

## Heckel, Edouard

1886. Nouvelles observations de tératologie phanérogamique. Soc. Bot. de France Bul. 33:41-46. (Proliferation of fig, p. 42.) Prolongation of the floral axis to produce a second fruit at the apex of first.

## Hemsley, W. E.

1883. On the relations of the fig and the caprifig. Nature 27: 584-86. See extract in: Bot. Gaz. 8:280. 1883. Summary of articles by Gasparrini, Solms-Laubach, Müller and Arcangeli.

## Henfrey, Arthur

1884. An elemental course of botany. 4th ed. by M. T. Masters assisted by A. W. Bennett. 724 pp. John Van Voorst, London. (Syconus, p. 148. Figure 305.)

## Hickel, Robert

1914. Graines et plantules des arbres et arbustes indigènes et communément cultivés en France. Deuxième partie - Angiosperms. 347 pp. Chez l'Auteur, Versailles. (*Ficus* p. 76.) Also in: Soc. Dendrol. de France Bul. 26:152. Nov. 1912. Brief account of the syconium; carpels form the small seeds; seeds small, rounded at the apex, more or less pointed (effilees) at the base.

## Holman, R. W., and W. W. Robbins

1938. A textbook of general botany for colleges and universities. 4th ed. 664 pp. John Wiley and Sons, New York. (Fig, p. 275. Figure 218.) Multiple fruit sometimes called a syconium.

## Hooker, W. J.

1834. Classical plants of Sicily. Jour. Bot. 1:141-43. (Fig, p. 142.)

## Jaeger, G. F.

1814. Ueber die Missbildungen der Gewächse. 320 pp. Joh. F. Steinkopf, Stuttgart. (Fig, pp. 209, 210. Figures 47, 48.) Short description and illustration of double or twin figs on one stalk.



Jones, S. G.

1939. Introduction to floral mechanism. 274 pp. Chemical Publ. Co., New York. (Fig, p. 100.) The syconus of the fig consists of a hollow fleshy infructescence enclosing numerous drupels each produced from a tiny carpellate flower.

Kohl, T. G.

1889. Anatomisch-physiologische Untersuchung der Kalksalze und Kieselsäure in der Pflanze. 314 pp. Elwert, Marburg. (Fig, p. 115.) Abstracted in: Bot. Centr. 41:63-68. Cystoliths.

Kolelishvili, M. V.

1937. Biology of blossoming of the wild fig of Western Kopet-Dag. Soviet Subtropics 3:77-79. Illus. (Ficus carica var. transcaspica.) Russian.

Kraemer, Henry

1914. Applied and economic botany. 822 pp. (2d ed.) John Wiley & Sons, New York. (Fig, p. 515; enzyme, p. 244.) Very brief.

Krause, O.

1930. Cytologische Studien bei den Urticales. Deut. Bot. Gesell. Ber. 48:9-13. (Fig.) 2n=26.

Kurokami, T.

1950. Experimental studies on plant growth hormones. III. Effect of plant growth hormone treatment on time of maturity of fig fruits. Japan Hort. Assoc. Jour. 19:1-8. (In Japanese.)

La Hire, Jean N.

1714. Observations sur les figues. Acad. des Sci. Paris, Hist. Mem. 1712:275-78. Pl. 15, figures 1-12. See also, pp. 49-50. Pistillate and staminate flowers described and illustrated.

La Marck, Jean B.

- 1791-1823. Tableau encyclopédique et méthodique des trois règnes de la nature. Botanique. Illus. 3 vols. Agasse, Paris. (Ficus carica, tab. 861.) Illustrations of leaves, fruit, flowers, seed.

Lapin, W. K.

1937. On the possibility of replacing in cytological practice Oleum caryophylorum by some other essential oils. (Russian with English summary.) Works of the All-Union Sci. Res. Inst. of Humid Subtropics 1(4):75-79. Root tip sections of Ficus carica used.

## Leclerc du Sablon

1906. Sur la reproduction du figuier. Acad. des Sci. [Paris] Compt. Rend. 143:756-57. See also: Gard. Chron. 41:301.  
1907. Flowers; seeds in caprifigs.
1907. Sur la symbiose du figuier et du Blastophage. Acad. des Sci. [Paris] Compt. Rend. 144:146-48. Reg of Blastophaga; development of endosperm.
1908. Observations sur les diverses formes du figuier. Rev. Gen. de Bot. 20:129-50, 13 figures; 207-16, 2 figures. Kinds of flowers; crops of figs; pollination by insect; types of the fig; seeds in figs.
- 1910a. La reproduction du figuier. II. Quelques observations sur le figuier. France Assoc. Avanc. Sci. Congr. Toulouse, Résumés des travaux, 39:110-12. Seed formation; pollination by Blastophaga.
- 1910b. Sur un cas de parthénogénèse du figuier de Smyrne. Rev. Gen. de Bot. 22:65-69. Arguments in favor of parthenogenesis.

## Lee, James

1776. An introduction to botany containing an explanation of the theory of that science extracted from the works of Dr. Linnaeus. 432 pp. J. F. and C. Rivington, London. (Ficus, p. 149.) Order Polygamia, Trioecia; fig flowers.

## Le Maout, Emmanuel, and Joseph Decaisne

1873. A general system of botany. Transl. by Mrs. F. H. Hooker ---with additions by J. D. Hooker. 1066 pp. Longmans, Green and Co., London. (Fig, pp. 37, 671, 672. Figure 158.) See also 1876 ed. Brief; a nutritious food and an emollient medicine; inflorescence a hypanthodium.

## Leopold, A. Carl

1955. Auxins and plant growth. 354 pp. California Univ. Press, Berkeley. (Fig, pp. 11, 126, 220, 294, 295, 296.) Effects of applications of auxins on parthenocarpy and fruit characters.

## Longo, B.

1905. Acrogamia aporogama nel fico domestico. Ann. di Bot. 3:14-17. 1 figure.
1906. Ricerche sul fico e sul caprifico. R. Accad. Naz. dei Lincei, Atti. Rend., Sci. (5th ser.) 15:373-77.
1909. Osservazioni e ricerche sul Ficus carica. Ann. di Bot. 7:234-56. 3 illus. Crops of the fig tree; flowers; caprification; oleification.

1911. Su la pretesa esistenza del micropilo nel Ficus carica. Ann. di Bot. 9:197-98. Tav. 6. Denies existence of micropyle in ovule.
1911. Sul Ficus carica. Ann. di Bot. 9:415-32. The caprifig and its crops; crops of edible fig; erinosyce; seedling figs.
- 1912a. Ancora sul Ficus carica. Ann. di Bot. 10:147-58. Also in: Atti. Soc. Ital. Progr. Sci. 6:3-5. 1913. Comments on publications of Tschirch and Ravasini.
- 1912b. Di nuovo sul Ficus carica. Soc. Bot. Ital. Bul. Proc. verbali, 19 Ott. 3 pp.
- 1912c. Sur le Ficus carica en Italie. Acad. des Sci. [Paris] Compt. Rend. 155:433-35. Discussion of investigations by Tschirch and Ravasini.
- Lorito, Fernanda  
1949. Sviluppo dei fiori maschili nel caprifico. Nuovo Giorn. Bot. Ital. 56:285-87. Abstracted in: Biol. Abs. 25:1658. Macroscopical and microscopical observations on development of male flowers in fig syconia.
- Malpighi, Marcelli  
1687. Opera omnia. 2 vols. Petrum Vander Aa, Lugduni Batavorum. (Ficu, 1:2, 4, 39, 41, 50 (figure 92), 80 (figure 272).) Illustration of fig flower and ligneous cylinder of stem.
- Mann, Louis K.  
1948. Morphological development of parthenocarpic fruits. Amer. Soc. Hort. Sci. Proc. 52:226-32. (Fig, p. 228.) "Seed" of fig a misnomer, at least to the botanist.
- Massalongo, Caro  
1888. Contribuzione alla teratologia vegetale. Nuovo Giorn. Bot. Ital. 20:261-93. (Ficus carica, pp. 279-80. Tav. 15, figures 5-7.) Floral teratology.
1898. Nuovo spigolature teratologiche. Soc. Bot. Ital. Bul. Firenze 1898:202-204. (F. carica, p. 203.) Scales of receptacle.
- Masters, M. T.  
1869. Vegetable teratology, an account of the principal deviations from the usual construction of plants. 534 pp. Publ. for Ray Society by R. Hardwicke, London. (Fig, p. 205. Figures 105, 106.) Proliferation; figures after Zuccarini.

Matveev, M. I.

1950. Defoliating figs and pomegranates by using alphanaphthaleneacetic acid. (Russian.) Doklady Akad. Nauk S. S. S. R. 72:189-91. Abstracted in: Hort. Abs. 21:336. Leaves on treated fig shoots turned yellow.

Metcalf, C. R., and L. Chalk

1950. Anatomy of the Dicotyledons. 2 vols. Clarendon Press, Oxford. (*Ficus carica*, 2:1248, 1262.) Figure of petiole cross section and of cystolith.

Mirbel, M.

1813. Nouvelle classification des fruits. Soc. Philomathique de Paris Bul. (ser. 2) 3:313-19. Syconus defined.

Mitchell, John W., and P. C. Marth

1950. Growth regulating substances in horticulture. In: Ann. Rev. Plant Physiol. 1:125-40. (Figs, pp. 128, 132.) Review of work by Blondeau and Crane on treatment of Calimyrna.

Moeller, J., and C. Griebel

1928. Mikroskopie der Nahrungs- und Genussmittel aus dem Pflanzenreich. (3d ed.) 529 pp. Julius Springer, Berlin. (Feige, pp. 289-90. Figures 429-32.) Good account and illustrations of hair, latex cells, seeds; products.

Moquin-Tandon, A.

1841. Éléments de tératologie végétale. 603 pp. P. J. Loss, Paris. (Fig, p. 385.) Cited by Penzig, 1922. See: review by Viviani-Morel 1890. Three classes of proliferation: frondipares or leaves, floripares or flowers, and fructipares or fruits.

Morren, Charles

1838. Notice sur la circulation observée dans l'ovule, la fleur et le phoranthe du figuier. Brussels Acad. Roy. Sci. et Belles-Lettres Bul. 4:519-29. 1 pl. Illustrations of flower and its morphology.

Nitsch, J. P.

1954. Phytohormones et biologie fruitière. III. Fruits d'Outre-Mer 9:157-62. (Figures, p. 159.) Two hormones used on figs; maturity advanced a month; fig fruits thus obtained without caprification.

Okabe, Y.

1940. Growth-promoting and growth-inhibiting substances in the petiole. Bot. Mag. Tokyo 54:357-65. (*Ficus carica* and others.) Abstracted in: Exp. Sta. Rec. 86:602.



Payer, Jean B.

1857. *Traité d'organogénie comparée de la fleur* Texte, 748 pp. Atlas, 154 pls. Victor Masson, Paris. (Figue, p. 285-88. Pl. 61.) Inflorescence of the fig.

Penzig, O.

- 1921-1922. *Pflanzen-teratologie systematisch geordnet*. 3 vols. Borntraeger, Berlin. (*Ficus carica*, 3:217-18.) Review of literature on abnormalities in fig flowers and fruits.

Petrucchi, V. E.

1950. Fruit bud initiation and differentiation in the Mission fig. California Fig Inst. Ann. Res. Conf. Proc. 4:37-39.

Petrucchi, V. E., and J. C. Crane

1950. Fruit bud initiation and differentiation in the fig. Amer. Soc. Hort. Soc. Proc. 56:86-92. Figures 1-4. Fruit bud formation in Mission fig occurs in terminal buds of young shoots throughout the growing season.

Rao, C. B.

1944. Fig (*Ficus carica*) pollination. Indian Jour. Hort. 2:44-45. See; Biol. Abs. 20:800. Of ten varieties of the fig only three fruited normally at Kodur without artificial pollination, the syconia of the others being shed. Insertion of the pollen of *Ficus glomerata* by means of a bamboo needle resulted in normal development.

Ravasini, Ruggero

- 1912a. Ancora sul *F. carica*. Arch. di Farm. Sper. e Sci. Affini 1:85-116. Further discussion of controversy with B. Longo.
- 1912b. Sul *Ficus carica*. Risposta al Prof. B. Longo. Arch. di Farm. Sper. e Sci. Affini 1:14-31. Discussion on the existence of a micropyle in ovule of fig; quotes from Longo, and other authors.

Renner, Otto

1906. Beiträge zur Anatomie und Systematik der Artocarpeen und Conocephaleen insbesondere der Gattung *Ficus*. Bot. Jahrb. 39:319-448. (*F. carica*, p. 403.) Epidermal hairs and cystoliths.
1909. Die Lithocysten der Gattung *Ficus*. Bot. Centbl. Beih. 25: 183-200. Figures 1-21. (*F. carica*, pp. 194, 199.) Key to occurrence of lithocysts.

Rerolle, Louis

- (?) Étude sur les végétations-fosse de Cerdagne. (*Ficus carica*, p. 59. Pl. X, figures 2-3.) Cited by Gaston de Saporta, 1888, p. 203-8.

Ridley, H. N.

1930. The dispersal of plants throughout the world. 744 pp. Kent, L. Reeve & Co., Ashford. (Ficus carica, pp. 32, 453, 454, 460, 478.) Fig epiphytic in Cyprus; seeds spread by birds.

Rosenberg, O.

1930. Apogamie und Parthenogenesis bei Pflanzen. 66 pp. G. Borntraeger, Berlin. (Ficus carica, p. 28.) Reference to work of Tischler, 1912.

Rousseau, J. J.

1794. Letters on the elements of botany. (4th ed.) 503 pp. Transl. by T. Martyn. White & Son, London. (Fig, p. 468.) Short.

Russell, William

1892. Recherches sur les bourgeons multiples. Ann. des Sci. Nat. Bot. (ser. 7) 15:95-202. Pl. 1-4. (Ficus carica, pp. 114-16. Pl. 1, figures 7, 8.) Two buds in axil of each leaf.

Santagata, Antonio

1839. De nonnullis plantarum fructibus abnormibus. R. Accad. delle Sci. dell' Ist. di Bonon. Novi Com. 3:87-96. (Ficus carica, tab. 8, in color.) Abnormal fruits illustrated.

Saporta, Gaston de

- 1873-1874. Sur l'existence constatée du figuier dans les environs de Paris à l'époque quaternaire. Soc. Géol. de France Bul. (ser. 3) 2:442. Fossil figs.
1876. Sur le climat présumé de l'époque quaternaire dans l'Europe Centrale, d'après des indices tirés de l'observation des plantes. Intern. Congrès d'Anthrop. et d'Arch. Préhistor. Compt. Rend. 7e Session, Stockholm, 1874, 1:80-109. Illus. (Ficus carica.) A good account of the Ficus carica complex and related species; fossil forms, with illustrations of leaves.
1888. Origine paléontologique des arbres cultivés ou utilisés par l'homme. 360 pp. J. B. Baillière et Fils, Paris. (Ficus carica, pp. 203-8. Figure 23.) Identity of fossil specimens of fig.

Saunders, Edith R.

1939. Floral morphology. 2 vols. W. Heffer and Sons, Cambridge. (Fig, 2:336.) Male and female flowers; fruit a pseudocarp; vascular system.

Schenk, A.

1890. Handbuch der Paleontologie--herausg. von Karl A. Zittel. 958 pp. R. Oldenbourg, München. (Ficus carica, p. 481, figure 284; 483, figure 5.) Fossil figs.

Seward, A. C.

1931. Plant life through the ages. 601 pp. The Macmillan Co., New York. (Fig, p. 477.) Name Ficus used for fossil specimens much more freely than evidence warrants.

Siracusa-Jannelli, G.

1907. Sopra alcune interessanti anomalie vegetali. Malpighia 21:535-38. (Ficus carica, p. 537. Tav. V, figure 8.) Description and figure of double fig.

Sivori, Enrique

1949. Crecimiento anual de la higuera (brevas e higos). Rev. Argent. Agron. Buenos Aires 16:78-80. Illus. Growth cycle of the fig tree.

Skene, M.

1924. Biology of flowering plants. 523 pp. The Macmillan Co., New York. (Fig, pp. 371-73.) Poor account of pollination.

Small, James

1921. A textbook of botany for medical and pharmaceutical students. 681 pp. J. and A. Churchill, London. (Fig, pp. 305, 332, 416. Figures 695, 820.) Cradein in figs; cyathium of fig a reduced inflorescence.

Smith, G. M., et al.

1928. A textbook of general botany. 539 pp. The Macmillan Co., New York. (Fig, p. 451, figure 377.) Fig resembles a multiple fruit but individual fruits are not adherent. 5th ed. 1953.

Solereder, Hans

1908. Systematic anatomy of the dicotyledons. 2 vols. Clarendon Press, Oxford. Transl. by L. A. Boodle and F. E. Fritsch. Revised by D. H. Scott. (Moraceae 2:770-75. Figure 182; cystoliths, p. 1111-14.) Cystoliths occur on lower side of leaf.

Solms-Laubach, H. Graf

- 1882a. Die Herkunft, Domestikation und Verbreitung des gewöhnlichen Feigenbaums (Ficus carica L.) K. Ges. der Wiss. zu Göttingen Abhandl. 28:1-106. Abstracted in: Kosmos 1:306-15, by Fritz Müller. A classical work.

- 1882b. Figentraet i natur - og kulturhistorisk henseende. Tidsskr. Pop. Fremst. 29:265-90. 1 illus.

1885. Die Geschlechterdifferenzierung bei den Feigenbaumen. Bot. Ztg. 43:514-22, 530-39, 546-51, 562-71. 1 pl. Comparison of F. carica with other species.

1893. Ueber die Beobachtungen, die Herr Gustav Eisen zu San Francisco and den Smyrnafeigen gemacht hat. Bot. Ztg. 51: 81-84. Letter from G. Eisen, San Francisco, Aug. 9, 1892, regarding caprifig and caprification; comments.

Sturtevant, E. L.

1890. On seedless fruits. Torrey Bot. Club Mem. 1:141-85. (Fig, pp. 162-63.) A compiled account.
1919. Sturtevant's notes on edible plants. Edited by U. P. Hedrick. New York State Dept. Agr. Ann. Rept. 27. Vol. 2: 1-672. (Fig, p. 268.) Short; historical.

Tischler, G.

1912. Ueber die Entwicklung der Samenanlagen in Parthenokarpen Angiospermen-Fruchten. Jahrb. der Bot. 52:1-84. Parthenogenesis discussed; parthenocarpy. (Ficus carica, pp. 12-30. Taf. 1.)

Tournefort, Joseph P. de

1719. Institutiones rei herbariae. 3 vols. Typ. Regia, Paris. (Ficus, Figuiers, 1:662-63; 3:taf. 420.) Mostly description of varieties.

Trabut, L.

1922. Sur les origines du figuier. Rev. de Bot. Appl. et d'Agr. Colon. 2:393-96. Probably derived not from one wild species but from several.

Trecul, August A. L.

1853. Memoire sur la formation des feuilles. Ann. des Sci. Nat. Bot. (3d ser.) 20:235-314. Pl. 20-25. (Ficus carica, pp. 256-58. Pl. 21, figures 37-43.) Good account and illustrations.
1854. Des inflorescences centrifuges du figuier et du Dorstenia. Soc. Bot. de France Bul. 1:178-82. Flower development.

Trew, Christoph J.

- 1750-1773. Plantae selectae quarum imagines ad exemplaria naturalia Londini. Jacobus Haid, Norimbergae. (Ficus carica, pls. 73, 74, in color.) Color illustrations of leaves, purplish fruit, flowers and flower parts in detail; 59 figures in all with legends in Latin. See: Vogel in section on Europe.

Trinchieri, G.

1909. Della cauliflora nel fico domestico. Napoli, Crto. Bot. Bol. 2(2):1-2. Syconium sometimes directly from trunk or large branch.



Tschirsch, Alexander

1889. Angewandte Pflanzenanatomie ein Handbuch zum Studium des Anatomischen Baues. 2 vols. Urban a Schwarzenberg, Wien. (Ficus carica, 1:254, 448. Figures 270, 507.) Illustration of epidermis and hair from hypanthodium of fig; also flower from hypanthium.

- 1911a. Die Feigenbäume Italiens (Ficus carica L.), Ficus carica a caprificus and Ficus carica E. domestica und ihre Beziehungen zueinander. Deut. Bot. Gesell. Ber. 29:83-96. See: Bot. Centr. 117:610. Review of work by Ravasini.

- 1911b. Über die Urfeige und ihre Beziehungen zu den Kulturfeigen. Schweiz. Wochenschr. Chem. u Pharm. Zurich 49:293-97; 309-13. Critical and detailed account of the relation of fig and caprifig; review of literature.

1914. Das Feigenproblem. Prometheus 25:497-500, 515-17. Dis-agrees with B. Longo.

- 1909-1925. Handbuch der Pharmakognosie. 3 vols. in 6. Chr. Herm. Tauchnitz, Leipzig. (Feige, see index.) (See particularly: 2, Teil 1:24-35. Figures 6-12.) Good general account with illustrations.

Tschirsch, Alexander, and O. Oesterle

1900. Anatomischer Atlas der Pharmakognosie und Nahrungsmittelkunde. 351 pp. Chr. Herm. Tauchnitz, Leipzig. (Feigen, pp. 117-20. Taf. 28.) Good description of the male and female flowers, the receptacle, its anatomy and morphology; fig coffee; 22 figures in Plate 28.

Tschirsch, Alexander, and R. Ravasini

1911. Le type sauvage du figuier et ses relations avec le caprifiguier et le figuier femelle domestique. Acad. des Sci. /Paris/ Compt. Rend. 152:885-88. Wild fig of Italy constitutes a distinct species.
1912. Il fico primitivo ed i suoi rapporti col caprifico e col fico domestico. Arch. di Farmacol. Sper. e Sci. 12:49-53. Further notes on wild and edible figs.

Tukey, H. B. (Editor)

1954. Plant regulators in agriculture. 269 pp. John Wiley and Sons, New York. (Fig, pp. 78, 90, 94-96, 135. Figure 4.) Effects of plant regulators on parthenocarp in Calimyrna figs; ripening of Black Mission and Calimyrna accelerated.

Valdeyron, G.

1944. Observations sur la morphologie florale du figuier (Ficus carica L.) Soc. d'Hist. Nat. de l'Afrique du Nord, Bul. 35:20-26. A general review; measurements of stylar lengths.

1946. Expérience préliminaire sur la biologie florale du figuier (*Ficus carica* L.). Acad. des Sci. /Paris/ Compt. Rend. 223:162-64. Development of fruit; lengths of style.
1949. D'une observation sur la morphologie florale du grand figuier de Roscoff. Soc. d'Hist. Natur. de l'Afrique du Nord. Travaux Bot. 2:291-97. The large fig tree of Roscoff is a caprifig; the profichi mature in September; pistillate flowers are short styled and staminate flowers are numerous.
- Vavilov, N. I.  
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- 1912a. How about grafting in capri figs? Pacific Rural Press 84:172-73. Method tried by A. J. Dye, Cutler; not satisfactory.
- 1912b. Results of recent investigations in fig culture and caprification. California State Comm. Hort. Mo. Bul. 1:623-33. Also in: Calif. Cult. 40:387-91, 1913; Pacific Rural Press 84:28-30, 52-53. 1912; California State Fruit Grower Conv. Proc. 41:223-33. Part in: U. S. Mo. Weather Rev. 40:936-37. The caprifig and its crops, the best caprifigs, preserving mamme figs, caprification problems.
1915. Capri fig varieties. Pacific Rural Press 89:327. Requirements of good varieties; preserving mamme caprifigs.
- 1918a. A capri which will not caprify. Pacific Rural Press 96:422. No results from Pseudo-carica caprifig used in May.
- 1918b. Early establishment of blastophaga in California. California Cult. 51:147. Contention of Swingle and Rixford that a caprifig tree on Gates place near Modesto had carried fig insects for long years previous to 1900.
- 1919a. Grafting in capris not the best way. Pacific Rural Press 97:178. Practice not favored.
- 1919b. The Maslin seedling fig orchard. California Cult. 53:169, 177. Good historical account and of seedlings distributed.
1920. Symbiosis of blastophaga and the fig family. Jour. Econ. Ent. 13:459-63. Species of Ficus, the cultivated fig, life of blastophaga, fig pollination, symbiosis.

Rixford, G. F., and F. Heiny

1911. Interesting event in fig culture. California Cult. 36:390. Tree of Ficus pseudo-carica at Erawley colonized with blastophaga; trees also at Santa Barbara and Chico.

Roeding, G. C.

1900. Account of work of the blastophaga or capri insect in fertilizing the Smyrna fig. California Fruit Growers' Conv. Proc. 24:131-37.
1909. The fig wasp. Rural Californian 32:118. (From Town and Country Journal.) Brief.
1910. The plain facts of fig wasp history. California Cult. 35:659, 665. Ridicules the idea that fig insect had become established in Gates tree near Modesto before 1900.



- 1917a. Dringing the blastophaga or fig wasp to California. Fresno Republican, Agr. Dept., p. 26. Dec. 30. Short account.
- 1917b. How the Smyrna fig and the fig insect came to California. Pacific Rural Press 93:164-65. Also in: California Cult. 51:27, 38. 3 figures. California First Fig Inst. Proc., pp. 61-68. Good historical account; varieties of Smyrna and caprifigs.
- Rosenberg Bros.
1926. Caprification. California Fruit News 73:1. Illus. May 8. Advertisement on front page.
1931. How a tooth pick built an industry. California Fruit News 83:1. June 6. Advertisement.
- Roullard, F. P.
1920. Some things the grower should know about caprification. Fig and Olive Jour. 4(8):10. Jan. Popular suggestions.
1926. Standardization of caprifigs. California Ann. Fig Inst. Proc. 10:4. (Mimeo.) Brief statement of state law on standardization and its provisions.
- Saint-Laurent, Joannon
1752. Della caprificazione. Soc. Colomb. Fiorentina Mem. 2:243-69. According to Solms-Laubach, 1882, Die Herkunft, Saint-Laurent was a Florentine to whom the operation of caprification was unknown but hoped its introduction would be of decided benefit in Tuscany.
- Sajo, Karl
1901. Die Caprification der Feigen. Prometheus 12:788-92, 807-11, 823-27. Figures 1-11. Abstracted in: Bot. Centr. 89:244.
- Saunders, S. S.
- 1879-1880. Fig insects. Holmesdale Nat. Hist. Club Reigate Proc. 45-48. Report on present knowledge of caprifigs and caprification.
1883. On the Cynips caricae of Hasselquist and other fig-insects allied thereto. Ent. Soc. London Trans. 1883 (part IV):383-92. Pl. 18. Notes on specimens received from Smyrna.
1884. Further notes on the caprification of domestic figs with reference to Dr. P. Mayer's comments thereon. Ent. Soc. London Trans. 1884 (part 1):97-106.

Savastano, L.

1905. Un esperimento a proposito della caprificazione. Bol. della Arbor Ital. 1:150. Experiments in the Sorrentine Peninsula where caprification is not commonly practiced were negative.
1919. Della caprificazione in gli scritti agrari di V. Semmola. Studio critica. Acireale R. Staz. Sper. di Agrumic. e Fruttic. Ann. 4:VIII-X.

Schoffelmayer, V. H.

1923. Sterile Smyrna fig trees fertilized by tiny insects. Semi-weekly Farm News, Dallas, Texas. April 27. Caprifigs with insects sent by G. P. Rixford.

Schwarz, E. A.

1901. A season's experience with figs and fig insects in California. Ent. Soc. Washington Proc. 4:502-7. Good account of observations on crops, life history of blastophaga, and varieties.

Semmola, Vincenzo

1845. Della caprificazione; esperienze e ragionamenti. Accad. delle Sci. Napoli Rend. 4:417-55. Opinions of other authors, observations and experiments, life history of blastophaga, varieties.
- 1847-1848. Su la natura e genesi del moscherino del caprifico. Accad. delle Sci. Napoli Rend. 6:65-67; 7:8-15. Review of studies by Cavolini, Gallezio and others.

Simmons, Perez, and W. D. Reed

1929. Blastophaga completes thirty years of service. California Dept. Agr. Mo. Bul. 18:350-51. Also in: California Fruit News 80:30. Aug. 17. Brief history.

Simmons, Perez, et al.

1947. Caprification of Calimyrna figs. Summary of three years' research. California Dept. Agr. Bul. 36:115-21. Plan of experiment, distribution of caprifigs, results.

Simone, G. de

1893. Della zoofitogenia o generazione animale-vegetale dei moscerini del caprifico. 69 pp. B. Terlizzi, Adria.
1895. Addizione all'opuscolo intitolato zoofitogenia o generazione animale-vegetale dei moscerini del caprifico. 22 pp. B. Terlizzi, Adria.

Smithers, Consul

1877. Caprification. California Hort. 7:115-17. Letter from consul to San Francisco Call.

Sousa Figueiredo, A. de

— (?) Manoal d'arboricultura, tractado teorico e pratico da cultura dos arboles fructiferas. See p. 296. Solms Laubach 1882, Die Herkunft, reported that Sousa gave a better description of caprification than Brotero.

Stanton, George

1883. Caprification of the fig. Gard. Chron. (n.s.) 19:636. Quotes from several other authors.

Stella, G.

1841. Della inutilita della caprificazione nella nostra provincia di Terra d'Otranto, e dell utile che si potrebbe ottenere dalle attuali piante di caprifico (profico) inestandole a fichi gentili. Giorn. Econ. Rur. Pubbl. Soc. Econ. Terra d'Otranto 2(4). Cited by Grandi, 1929, Studio della Blastophaga, p. 142.

Sussex Naturalist

1900. The fig. Gard. Chron. (ser. 3) 27:156, 165. General; caprification.

Swingle, D. B.

1942. Plant life. 457 pp. D. Van Nostrand Co., New York. (Fig, pp. 178-79. Figure 124.) Short account of pollination by the fig wasp.

Swingle, W. T.

1899. The dioecism of the fig in its bearing upon caprification. Science (n.s.) 10:570-74. Good references to earlier accounts; nomenclature of blastophaga.

1900. Caprification of Smyrna figs. California Fruit Grower 25(4):—. June 23. Lecture before Microscopic Society of San Francisco.

1908. Some points in the history of caprification and in the life history of the fig. California Fruit Growers Conv. Proc. 34:178-87. Also in: Congressional Record 60:3606-8. 1921. Life history of the fig, ancient history, introduction of blastophaga into California, Maslin seedling fig orchard.

1912. Discussion of fig caprification. California State Comm. Hort. Mo. Bul. 1:633-34. Brief.

Swingle, W. T., and G. P. Rixford

1911. The first establishment of blastophaga in California. California Fruit Gr. Conv. Proc. 38:174-79. Also in: California Cult. 35:659, 664, 665. 1910. History; blastophaga found in figs near Modesto, presumably in 1886.

Swingle, W. T., and E. J. Wickson

1907. Who brought the blastophaga? Pacific Rural Press 74:338-39.

Tillyard, R. J.

1926. The insects of Australia and New Zealand. 560 pp. Angus & Robertson, Sydney. Blastophaga psenes successfully introduced, p. 276.

Timberlake, P. H.

- 1921-1923. Records of the introduced and immigrant chalcid-flies of the Hawaiian Islands. Hawaii. Ent. Soc. Proc. 5:418-49. (Blastophaga psenes, p. 419.) Introduced from California in 1909.

Trabut, L.

1901. La caprification en Algérie. Algérie Gouv. Gen. Dir. de l'Agr. Serv. Bot. Bul. 32:115-38. Also in: Rev. Vit. 16:501-4. Figures 3; 537-43. Figures 10. Good account; history, the blastophaga, the caprifig and cultivated fig, Croisie fig, caprification.

Treviranus, C. L.

1828. Ueber das Insekt welches die wilden Feigen in Oberitalien bewohnt. See: Isis, Encycl. Zeit. 20:313-14; Linnaea 3:70-77. Account of Cynips psenes, caprification, and review of literature.

Treviranus, C. L., and G. R. Treviranus

1822. Die Lehre vom Geschlechte der Pflanzen. 146 pp. Heyse, Bremen. See pp. 91-93. Cited by Treviranus, 1828, p. 70.

Tribble Bros.

1912. Caprification of Adriatic type of fig. Pacific Rural Press 83:52. Effect of caprification on Mission, Brown Turkey, and White Endich figs.

Tribble, C. D.

1918. Caprifying the Smyrna fig. California Cult. 51:7. Popular account.

## Tribolet, I.

1912. Caprification of Smyrna figs. Union So. Africa Dept. Agr. Jour. 1912: 247-56. Illus. (Lecture given before Paarl Farmer's Assoc., Dec. 5, 1911.) Also in: Farmer's Weekly, Feb. 1, 1922, pp. 1996-97. Union So. Africa Dept. Agr. No. 15:1-12. 1918. Inflorescence, blastophaga, caprifig trees, caprification, introduction to California and South Africa.

## Trotter, Alessandro

1912. Contributo alla conoscenza della galle della Tripolitania. Marcellia 11:210-19 (Ficus carica, p. 211.)

## Trouvelot, B.

1926. Les insectes de la caprification et leurs parasites. Rev. Sci. [Paris] 64 Ann., No. 20:633-34.

## Vallese, F.

1904. La caprificazione in Terra d'Otranto. 68 pp. 18 figures. Tipogr. Soc. Coop., Lecce. Inflorescence, fruit, varieties, blastophaga, Ichneumon, domestic figs; caprification; history, experiments, effects of caprification.

## Vogel, R.

1954. Notes sur la caprification. La Terre Marocaine 28:248-50: Fig fruits, caprifigs, cycle of blastophaga, types of figs, fecundation of Smyrna-type figs, practical caprification, choice of varieties.

## Walpole, Robert

1817. Memoirs relating to European and Asiatic Turkey. 607 pp. Longman, Hurst, Rees, Orme, and Brown, London. (Fig, p. 241.) See quotation by Hogg in Hooker's Jour. Bot. 1:142, on caprification.

## Ward, H. W.

1885. The fertilization of figs; stones in trees. Gard. Chron. (ser. 2) 24:247. Speculation re. caprification.

## Warner, R. M.

1950. Caprifig care and culture: seasonal tips on clean-up. California Fruit and Grape Grower 4(3):19-20. Figures 1-5. Treatment for endosepsis.

## Warner, R. M., and J. Larson

1949. Caprifig outlook. California Fig Inst. Ann. Res. Conf. Proc. 3:9-10. Fresno. Puratized Agricultural Spray recommended for use in treating caprifigs.



Werth, E.

1934. Der Generationswechsel der Blastophaga Gallwaspe im Zusammenhang mit der Entwicklung der Kultur und Wildfeige. Ent. Beihefte aus Berlin-Dahlem 1:113-17. 6 figures. Abstracted in: Rev. Appl. Ent. 22:563. Blastophaga has three generations in Italy.

Westwood, J. O.

- 1837-1840. On caprification as practiced upon the figs in the south of Europe and the Levant, with descriptions of the insects employed for that purpose; and observations upon the Agaon paradoxum of Dalman. Ent. Soc. London Trans. 2:214-24. Pl. 20. Abstracted in: Revue Zool. 1841:133-34. Review of literature; technical description of Elastophaga sycomori and of Sycophaga, a new genus and species.
1840. Introduction to the modern classification of insects. 2 vols. Longmans, London. (Caprification, 2:165.) Review of other accounts, some ascribing effects to pollination of flowers, some to bite of fig wasp.
1882. Descriptions of the insects infesting the seeds of Ficus sycomorus and carica. Ent. Soc. London Trans. 1882:47-60. Pls. 2-5.

Wheeler, D. P.

1940. A solution of the fig problem. California Cult. 87:258. Suggests planting isolated orchards of caprifigs.

Wheeler, G. B.

1952. Caprifigs and the fig wasp. California Fig Inst. Ann. Res. Conf. Proc. 6:26-27. Effect of growth regulators on caprifigs; response to various temperatures.

Whitney, D. J.

1929. The caprifig situation. California Cult. 72:322. Brief remarks on sterilization of caprifigs.
1932. Short caprifig crop. California Cult. 78:8. Probably due to heat of previous summer.

Williams, F. X.

1931. Handbook of the insects and other invertebrates of Hawaiian sugar cane fields. 389 pp. Advertiser, Honolulu. (Fig wasp, p. 251.) Successfully introduced in 1909.

Williams, W. H.

1933. A useful wasp. (Elastophaga.) Los Angeles Times Farm and Garden Mag., p. 10. Dec. 24. Short, popular.

## BREEDING

## Anonymous

1889. Fig trees from seed. California Fruit Grower 3(15):4. April 13. Directions for growing seedlings from imported figs.
1900. Quelques semis nouveaux. Pomol. Franç. Bul. Mens. 1900: 25-31. (La figue de semis.) A seedling of Bourjassotte Noire; description.
1912. Experiments for self-pollinating fig tree. Coachella Valley Submarine 10(41):1. July. Account of G. P. Rixford's work with seedling figs of which there are several thousand at the garden.

## B., S.

1864. Seedling figs. Gard. Chron. 24:1205. See p. 1158. Probably from seeds of dried Smyrna figs.

## Blair, R. E.

1914. Seedling figs. United States Dept. Agr. Bur. Pl. Indus. Work Yuma Exp. Farm in 1913:11-12. Of 1600 seedlings, 54 bore and matured fruits of good quality.
1915. Fig hybrids at Yuma. United States Dept. Agr. Bur. Pl. Indus. Western Irr. Agr. Cir. 7:19. (Work Yuma Exp. Farm 1914.) Cuttings of best seedlings rooted.
1918. Seedling figs at Yuma. United States Dept. Agr. Bur. Pl. Indus. Western Irr. Agr. Cir. 25:38. Of 275 trees that matured fruit, 39 were of promising quality.
1920. Fig seedlings at Yuma. United States Dept. Agr. Dept. Cir. 75:44. Fair to good seedlings numbered 62; introduction of blastophaga unsuccessful.

## Burbank, Luther

- 1914-1915. Luther Burbank, his methods and discoveries and their practical application. 12 vols. Ed. by John Whitson, et al. Burbank Press, New York. (Fig, 4:297-98.) Grew seedlings in abundance; 99 out of 100 produce worthless fruit.

## Condit, Ira J.

1928. Fig breeding. Jour. Heredity 19:417-24. Figures 1-3. Review of history, methods, and results in California.

1950. An interspecific hybrid in Ficus. Jour. Heredity 41:165-68. Figures 12-14. Ficus pumila x F. carica; characteristics of the hybrid.

Gill, Norman

1913. Figs. India, Kumaun Gov. Gardens Allahabad Ann. Rept.  
1912-13:4. A probable hybrid fig; cross with wild jungle species.

Hambidge, Gove.

1937. What the book is about. United States Dept. Agr. Yearbook 1937:119-70. (Fig breeding, p. 146.) Brief.

Hunt, B. W.

1911. Fig breeding. Univ. Georgia Bul. 11:146-48. Short account of methods and results.  
1912. Fig breeding. Univ. Georgia Bul. 12:107-10. Also in: Georgia State Hort. Soc. Proc. 36:17-20. Good account of pollination, introduction of blastophaga, results.

Koch, I.

1954. Inwoner van Aardenburg beschikt over 440 varieteiten vygen. Provinciale Zee. Courant 197(247):1. Oct. 20. One figure. Account of fig seedling work of Dr. Koch in Holland.

Longo, B.

1918. Primi risultati della seminazione del caprifico. R. Accad. Naz. dei Lincei, Cl. di Sci. Fis., Mat. e Nat. Rend. 27: 55-57. Abstracted in: Internatl. Inst. Agr. Rev. Sci. and Pract. Agr. 9:571. Seedlings of caprifigs gave both edible and caprifigs.  
1924. Ulteriori risultati della seminazione del caprifico. R. Accad. Naz. dei Lincei, Cl. di Sci. Fis., Mat. e Nat. Rend. 33:228-29. Of 21 seedling trees, 4 bore edible figs and 17 bore caprifigs.

Massey, W. F.

1894. Raising figs from seed. Amer. Agr. 53(2):69. Feb. Seedlings of Smyrna figs; one tree bore the second year.

Nesterenko, G. A.

1948. Sadi Ogorod (Fruit and Vegetable Gardens) 1948(4):20-25. Abstracted in: Plant Breeding Abs. 19:205. Five varieties of plums and figs have been obtained through hybridization.

Peterson, W. A.

1913. Work of the Yuma Experiment Farm in 1912. United States Dept. Agr. Bur. Pl. Indus. Cir. 126:15-25. (Figs, pp. 22-23. Figure 4.) More than a thousand seedlings planted.

Pierce, N. B.

1906. Wild plant improvement. Pacific Rural Press 72:292, 293. Number of wild figs worthy of improvement for edible fruit.

Reed, H. M., and S. H. Yarnell

1939. Figs. Adaptability and breeding. Texas Agr. Exp. Sta. Ann. Rept. 52:24, 161. Record of fig crosses.
1940. Figs. Adaptability and breeding. Texas Agr. Exp. Sta. Ann. Rept. 53:22, 156. Some seedlings bore fruit; storage of pollen.
1941. Fig breeding work. Texas Agr. Exp. Sta. Ann. Rept. 54:47, 109. Brief.

Rixford, G. P.

1920. Some results of fig breeding by the United States Department of Agriculture. Fig and Olive Jour. 4(10):12. March. Method of crossing figs; parents used; results.
1926. Work with seedling figs. California Tenth Ann. Fig Institute Proc. Fresno; 6-9. Also in: Pacific Rural Press 112:696. General; fig flowers; history; some promising seedlings.

Ross, Charles, et al.

1886. Figs from seed. Gard. Chron. (2d ser.) 26:278, 308, 339, 528.

Solly, D.

1842. The wild fig. Gard. Chron. 2:653. Seedling figs in England.

Swingle, W. T.

1909. Cooperative distribution of new varieties of Smyrna figs and caprifigs. United States Dept. Agr. Bur. Pl. Indus. Doc. 438:1-6. 1 figure. 2d rev. Doc. 537, Jan. 22, 1912. Plan of distributing seedlings for trial.

Traub, H. P., and T. R. Robinson

- 1937a. Improvement of subtropical fruit crops. Citrus Indus. 18 (11):12, 14. Nov. Short.

- 1937b. Improvement of subtropical fruits other than citrus. United States Dept. Agr. Yearbook Separate 1589:1-77. Illus. (Fig improvement, pp. 1-10. Figures 1, 2.) Abstracted by M. Calvino in Internatl. Rev. Agr. 29(11): 450T. Good account; history, present work in United States and foreign countries; cytology and genetics.

## FOREIGN

## Albertus Magnus (1193-1280)

1867. Alberti Magni ex ordine praedicatorum de vegetabilibus libri VII, historiae naturalis pars 18. Ed. criticam ab Ernesto Meyero coeptam absolvit Carolus Jessen. 752 pp. Georgii Reimeri, Berolini. (Ficus carica, pp. 385-87.) Short, general; nutritive and medicinal properties.

## Arago, Jacques E. V. (1790-1855.)

1823. Narrative of a voyage round the world. 285 pp. Treuttel and Wurtz, London. "Spain possesses the best classes and varieties of figs of the world; but to mention or describe them all would be to undertake a useless task, so much so that the same fig is known by different names in nearby sections."

## Athenaeus (228 A.D.)

1927. Athenaeus--The Deipnosophists, with an English translation by Charles E. Gulick. 7 vols. Harvard University Press, Cambridge. (Figs, 1:321-47; 6:523-29. See also Index, Vol. 7.)

## Baltet, Charles

1895. L'horticulture dans les cinq parties du monde. 776 pp. Soc. Nat. d'Hort. de France. (Figuier: Espagne, p. 249; États-Unis, p. 279; France, p. 475; Greece, p. 572; Italie, p. 594; Tunisie, p. 738; Turquie, p. 747.)

## Bauhin, J., and H. H. Cherler

- 1650-1651. Historia plantarum universalis. 3 vols. Ebroduni. (Ficus, 1:124-44. Six figures.) Sycomore fig, Chamaeficus, Caprificus, F. carica.

## Bedevian, A. K.

1937. Illustrated polyglottic dictionary of plant names. 455 pp. Argus and Papazian, Cairo. (Ficus carica and F. carica var. sylvestris, p. 276.) Common names.



Bennett, George

1834. Wanderings in New South Wales, Batavia, Pedir Coast, Singapore and China; being the journal of a naturalist in those countries during 1832-34. 2 vols. Richard Bentley, London. (Figs, 2:242.) At Jamestown, St. Helena, figs and other fruits abounded at reasonable prices.

Bove, N.

1834. Relation abrégé voyage botanique en Egypte, dans les trois Arabies, en Palestine et en Syrie. Ann. des Sci. Nat. (2e sér.) Bot. 1:72-87, 161-79, 230-39. Separate, 43 pp. (Figuier, pp. 1, 10, 18, 28, 30, 36, 37, 40.) Mostly mentions only with other fruits; in Palestine, figs planted near the sea; two varieties, one violet and one greenish yellow.

Brown, Forest B. H.

1935. Flora of southeastern Polynesia. III. Dicotyledons. Bernice P. Bishop Museum Bul. 130:1-386. (Ficus carica, p. 43.) Of recent introduction to the Marquesas.

Burnett, M. A.

- 1842-1850. Plantae utiliiores, or Illustrations of useful plants employed in the arts and medicine. 4 vols. Whittaker and Co., London. (Ficus carica, XXX 1, pl. 10, in color; pages not numbered; 2 pp. of text.) Short general account of botany, history, caprification, commerce, uses; color plate of leaves and purplish fruit.

Candolle, Alphonse de

1886. Origin of cultivated plants. 462 pp. Kegan, Paul, Trench and Co., London. (Fig, pp. 295-98.) Origin, history, distribution, names.

Chevalier, Aug.

1939. Les origines et l'évolution de l'agriculture méditerranéenne. Rev. de Bot. Appl. et d'Agr. Trop. 19:613-62. (Figuier, pp. 639-40.) In a vast region fig tree subspontaneous or represented by innumerable cultivated varieties reproduced by cuttings.

Daubeny, Charles G. B.

1865. Essay on the trees and shrubs of the ancients. 152 pp. J. H. and J. Parker, Oxford and London. (Ficus carica, p. 2.) From Syria was derived the common fig, from Egypt the sycomore fig.

Dietrich, Bruno, and Hermann Leiter

1930. Produktion Verkehr und Handel. 3 vols. L. W. Seidel and Sohn, Wien. (Feigen, 3:160, 161.) Figures on production in various countries; short notes.

Drude, Oscar

1887. Atlas der Pflanzenverbreitung. 6 pp. 8 maps. Justus Pertha, Gotha. (Berghaus Physikalischer Atlas, Abth. 5.) (Feige, Map 8.) Culture zone of fig shown in color, mostly Mediterranean and southeast Asia.

Dümichen, Johannas

1897. Bauurkunde des Denderatempels. (Ficus carica, Pl. XIX.)  
Cited by Chas. Joret, 1897.

Eisen, Gustav

1930. Antique fig beads. Amer. Jour. Arch. (ser. 2) 34:190-96.

Eisenstein, Judah D.

1906. A Hebrew encyclopedia. 10 vols. New York. See 1:281.  
Cited by Immanuel Low, Die flora der Juden, 1924-1934.

Faber, Johann E.

- 1772-1779. Beobachtungen über den Orient. Aus Reisebeschreibungen zur Aufklärung der heiligen Schrift. Aus den Englischen übersetzt und mit anmerkungen versehen. 3 vols. Bohn, Hamburg. (Feigenkuchen, 3:420.)

Faure, J.

1953. La production fruitière sur le plan international. Fruits d'Outre Mer 8:337-42. (Figues, p. 339.) 1948 production 1,000,000 tons.

Fraas, C.

1845. Synopsis plantarum florae classicae. 320 pp. E. A. Fleischmann, Munchen. (Ficus carica, p. 242.) Brief.

Gamba

1826. Voyage dans la Russie Mérid. Paris. Cited by Karl Ritter, 1822-1859.

Grisebach, August H. R.

1884. Die Vegetation der Erde nach ihrer klimatischen Anordnung. 2 vols. Ed. 2. W. Engelmann, Leipzig. (Feigenbaum, 1:264, 297, 540.)

Guidi, Ignazio

1879. Della sede primitiva dei popoli semitici. R. Accad. Nac. dei Lincei Atti, Cl. di Sci. Morali, Storiche e Filol. Roma Mem. (ser. 3) 3:566-615. (Ficus carica, pp. 598-99.) Fig in Arabia; Hebrew references.

Hahn, Ed.

1925. Feige. In: Reallexikon der Vorgeschichte. Vol. 3. Max. Ebert, ed. W. De Gruyter, Berlin. (See p. 198.)

Halvey, Joseph

1873. Voyage au Nedjran. Soc. de Géog. [Paris] Bul. (ser. 6) 6:5-31, 249-73, 581-606. (Figues, p. 271.)

Hanausek, T. F.

1884. Die Nahrungs--und Genusmittel aus dem Pflanzenreiche. 485 pp. T. Fischer, Kassel. (Die Feige, pp. 205-12; Feigenkaffe, p. 419. Figure 62.) Distribution, flowers, caprification, kinds by countries of production, microscopic anatomy, properties.

Hardy, M. E.

1920. The geography of plants. 325 pp. The Clarendon Press, Oxford. (Fig, pp. 42, 48, 52, 54, 201, 226, 230, 277, 280, 282.) Wild and cultivated trees listed.

Hehn, Victor

1888. The wanderings of plants and animals from their first home, by James S. Stallybrass. 523 pp. Swan Sonnenschein and Co., London. (The fig tree, pp. 85-87. See also p. 457.)

1894. Kulturpflanzen und Haustiere in ihrem Uebergang aus Asien nach Griechenland und Italien, sowie in das übrige Europa. Ed. 6. 625 pp. G. Bornträger, Berlin. (Feigenbaum, p. 97.)

Heintz, G. V.

1930. Materials for the organization and development of fig culture and fig industry in U.S.S.R. Soviet Russia Gov. Bot. Garden, Nikita, Yalta, Bul. 7:1-69. (In Russian.) Fig culture, production, and consumption in all countries of the world.

Herodotus (484-423 B.C.)

1901. Herodotus, literally translated from the text of Baehr, by Henry Cary. 613 pp. George Bell and Sons, London. (Fig, p. 30.) Also: The ancient history of Herodotus; transl. from the original Greek by William Belve. 489 pp. H. W. Derby, New York. 1861. (Fig, p. 22.)

Hilbert, R.

1913. Botanische Mitteilungen von den Inseln Bornholm und Christianso. Physikal.-Ökonom. Ges. Königsberg Schrift. 53:276-79. (Ficus carica, p. 276.) Fig trees of unusual size in garden, in Baltic Sea.

Hodgson, R. W.

1932. Horticultural observations in the Mediterranean Basin. Citrus Leaves 12(4):5-7, 23, 25. April. (Fig, pp. 7, 25.) Extensive and profitable plantings of olives and figs under a rainfall of 7 to 10 inches.

Hoffman, H[erman]

1865. Untersuchungen zur Klima- und Bodenkunde mit Rücksicht auf die Vegetation. Bot. Ztg. 1865:1-124. (Ficus carica, p. 57.) List of localities and behavior of fig tree in each.

1876. Areale von Culturpflanzen als Frielandpflanzen. Gartenflora 25:195-202. (Ficus carica, pp. 199-202. Taf. 872, Karte 12.) Good account of distribution in various countries; cross references to literature.

Ivanov, N. N. (Editor)

[Biochemistry of cultivated plants.] Vol. 7. Fruit and berry culture. (In Russian.) 562 pp. Seljhozgiz, Moscow. Abstracted in: Hort. Abs. 16:279.

Joret, Charles

1897-1904. Les plantes dans l'antiquité et au moyen age. 2 vols. Emile Bouillon, Paris. (Fig, see index.)

Lassen, Christian

1857-1874. Indische Alterthumskunde. 4 vols. L. A. Kittler, Leipzig. (Feige, 3:310-11.)

Lippmann, Edmund C. von

1906-1913. Abhandlungen und Vorträge zur Geschichte der Naturwissenschaften. 2 vols. Veit, Leipzig. (Feige, 1:35, 60, 62, 70; 2:125.)

Low, Immanuel

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Magerstedt

— (?) Cited by Felix Goldmann, 1911, La figue en Palestine. (Fig, pp. 176, 181-82, 183, 186, 191, 194, 195, 198.) Describes fig buds, fig insect, and oleification.

Martineau, Mrs. Philip

1924. Gardening in sunny lands. 296 pp. D. Appleton and Co., New York. (Fig, pp. 108, 151, 177.)

Megenberg, Konrad von (about 1350)

1861. Das Buch der Natur. Die erste Naturgeschichte in deutscher Sprache. 807 pp. (Fig, pp. 275-77.) Karl Ane, Stuttgart. Cited by E. Leick, 1924, Die Kaprifikation.

Miquel, F. A. W.

1862. Over de geographische Verspreiding der Ficeae. 24 pp. C. G. Van der Post, Amsterdam. In: Akad. Wetensch. Afdeeling Natuurkunde 13:382-416. (Ficus carica, pp. 9, 12-13, 15.) Distribution.

Movers, Franz K.

- 1841-1856. *Die Phoenizier*. 2 vols. in 4. E. Weber, Berlin.  
(Ficus, 2(2):528.)

Mueller, Samuel

1719. *Curioser Botanicus, oder sonderbares Kräuterbuch*. 896 pp.  
J. C. Meith, Dresden. (Feigenbaum, pp. 373-74. 1 figure.)  
Short account of plant, districts, uses.

Murray, G. H.

1941. Director's report. *New Guinea Agr. Gaz.* 7:77-116. (Figs, p. 109.) A few figs of the Blue Province variety were produced but were quite tasteless.

Neilsen, N. I.

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Ochse, J. J.

1927. *Indische Vruchten*. 330 pp. Weltevreden, Buitenzorg. (Ficus carica, pp. 134, 135. Figure 65.) Short; illustration of leaves and fruit.

Olck, F.

- 1894-1919. Feige. In: *Pauly's Real Encyclopädie der classischen Altertumswissenschaft*--von G. Wissowa. 11 vols. J. B. Metzler, Stuttgart. (Feige, 6:2099-2151.)

Olivier, G. A.

1801. *Travels in the Ottoman Empire, Egypt, and Persia, undertaken by order of the Government of France, during the first six years of the Republic...* (2d ed.) Transl. from French. 2 vols. T. N. Longmans, London. (Figs, 1:140, 358; 2:47, 57, 60, 89, 101, 107, 140, 153, 172-74, 175, 209, 261, 280; the "fig-pecker," p. 354. "Let us leave all the marvels of caprification, and acknowledge, according to observation, that it must be useless, since every fig contains some male flowers towards its eye, capable of fecundifying all the female flowers of the inside; and that, besides, this fruit may grow, ripen, and become excellent to be eaten, when even the seeds are not fecundified." Vol. 2:174.

Pickering, Charles

1863. The geographical distribution of animals and plants. In: *United States exploring expedition during the years 1838, etc., under the command of Charles Wilkes*. Vol. 15. 168 pp. Gould and Lincoln, Boston. (Fig, pp. 10, 15.) Clusters of figs included among offerings (Lepsius II, pl. 10); fig tree distinctly represented at Benihassan, Egypt.



1879. Chronological history of plants. 1222 pp. Little, Brown and Co., Boston. (Ficus carica, pp. 2, 72.) History and distribution.
- Pontedera, Giulio  
 1720. Anthologia; sive, De floris natura libri tres. 296 pp. Seminarium, Patavii. (Caprification, Chap. 33, pp. 170-71; the insect Ficarius, Chap. 34, pp. 172-75; pollination of fig and palm compared, Chap. 35, pp. 175-77.)
- Reynier, Jean L. A.  
 1819. De l'économie publique et rurale des Perses et des Phéniciens. 416 pp. J. J. Paschoud, Genève. (Figuier, p. 290.) Mentioned only; caprification similar to pollination of date palm.  
 1820. De l'économie publique et rurale des Arabes et des Juifs. 543 pp. J. J. Paschoud, Genève. (Figues sèches, pp. 472-73.)
- Rikli, M.  
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- Ritter, Karl  
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- Sadebeck, R.  
 1899. Die Kulturgewächse der deutschen Kolonien und ihre Erzeugnisse. 366 pp. G. Fischer, Jena. (Ficus carica, pp. 88, 90, 91, 93.) Short, general; caprification.
- Sata, Nagaharu T.  
 1944. A monographic study of the genus Ficus from the point of view of economic botany. Taihoku Imp. Univ. Inst. of Hort. and Econ. Bot. Contrib. No. 32. 401 + 289 pp. Reprint from "The Research and Survey No. 143-144", Bur. For. Affairs, Gov. Gen. of Taiwan. (Ficus carica, pp. 3, 66: 157-162.) Sexuality of fig; fig in Formosa; origin and occurrence of the fig.
- Schreiber, W. R.  
 1945. The world fig situation. Foreign Fig Report No. 60. Federal-State Market News Service, Sacramento. California Fruit News 112(2982):4-5, 11. Sept. 1.

- 1949a. Foreign dried fig production in 1948. California Fruit News 119(3158):8, 9, 10. Jan. 15.
- 1949b. Foreign dried fig production smaller this year. California Fruit News 120:4-5. Dec. 31. Statistics and condition of crops.
- 1949c. Foreign 1948 dried fig estimates decline. California Fruit News 119(3168):4, 5. March 26.
1950. World dried fig production. California Fruit News 122(3259):9, 10. Dec. 23.
- 1951a. World dried fig production down. California Fruit News 123(3269):4, 5. March 3.
- 1951b. World 1951 dried fig pack below average. California Fruit News 124(3365):4, 9. Nov. 10.
- Schweinfurth, G. A.
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1911. Arabische Pflanzennamen aus Aegypten, Algerien und Jemen. 232 pp. D. Reimer, Berlin. (*Ficus carica*, pp. 22, 120, 140, 164, 201.) Tin in Egypt; Beless in Yemen; karam and kartoss in Biskra.
- Semler, Heinrich
1887. Die tropische Agrikultur, ein Handbuch für Pflanzler und Kaufleute. 2 vols. Hinstorff'sche, Wismar. (Feigen 2:106-42.) Account of botany, culture, varieties, habit of growth, uses of fruit, handling of crop. According to Gustav Eisen, 1896, Biological studies, p. 992, it contains many errors.
- Sieber, F. W.
1823. Reise von Cairo nach Jerusalem und wieder zurück. 167 pp. Neuretter, Prag. (*Ficus carica*.)
- Simmonds, P. L.
1889. Tropical agriculture. (New ed.) 539 pp. E. & F. N. Spon, London. (Fig, pp. 478-80.) (Not in ed. of 1877.) A general account compiled from Mueller and other sources.
- Smith, J. Russell
1914. The agriculture of the Garden of Eden. Atlantic Monthly 114:256-62. (Fig, pp. 258, 259, 261, 262.) Food value stressed.

1919. The world's food resources. 634 pp. Henry Holt & Co., New York. (Fig, pp. 421-22.) Short, general; distribution, uses.

1929. Tree crops, a permanent agriculture. 333 pp. Harcourt, Brace and Co., New York. (Figs, pp. 16, 17, 303. Figures 12, 13.) Interculture of fig orchard on Island of Majorca.

Sokolov, G. A.

1952. Forest orchards of Tavrid (Crimea).<sup>7</sup> (In Russian.) Priroda 1952, No. 6:88-97. Illus. Fig. See: Hort. Abs. 23:27.

Sprenger, A. M.

1948. Het leerboek der fruitteelt. 2 vols. 119 pp. N. V. Vitgevers, Maatschappij. Fig under glass. Abstracted in: Hort. Abs. 19:85.

St. John, A. A.

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-769. United States Special Consular Reports, Gov. Printing Office, Washington. (Fiji, p. 749.) Also in: California State Bd. Hort. Rept. 1890:364.

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1932. The geography of Strabo with an English translation by H. L. Jones. 8 vols. G. Putnam's Sons, New York. (Fig, see Index, vol. 8.) Mentions various localities where tree is productive.

Summerhayes, V. S.

1940. The genus Ficus (Moraceae) in southeastern Polynesia. Bernice P. Bishop Mus. Occas. Papers 15:227-28. (Ficus carica, p. 227.) Cultivated plants.

Tobler, Friedrich, and H. Ulbricht

1942. Koloniale Nutzpflanzen. 240 pp. A. Hirzel, Leipzig. (Feigen, pp. 79-80.) General; distribution.

Tournefort, Joseph P. de

1741. A voyage into the Levant. 3 vols. English ed. D. Midwinter, London. (Fig, 2:20-23.) Two kinds, wild or caprificus, and garden fig tree; wild sort leaves three crops, fornites, cratitires, orni; good account of caprification; peasants so well order the orni, that their gnats cause the fruit of the garden fig tree to ripen in the compass of forty days; in Provence, figs ripen much sooner for having their buds pricked with a straw dipped in olive oil.

Unger, Franz

1857. Botanische Streifzüge auf dem Gebiete der Kulturgeschichte. K. Akad. der Wiss. Wien. Math.-Naturw. Klasse Sitzungsber. 23:159-244. (Ficus carica, pp. 208-9.) Short; general historical account.

1860. Plants used as food by man. Transl. from German. United States Com. Patents Rept. (Agriculture) 1859:299-362. (Fig, p. 331.) Historical account.

Wiesner, Julius von

1928. Die Rohstoffe des Pflanzenreichs. (4th ed.) 2 vols. W. Engelmann, Leipzig. (Feigen, 2:2071-72.) General; fruit, flowers, caprification, anatomy; distribution, properties, uses.

Wimmer, Christian F.

1862. Das Pflanzenreich. 208 pp. Hirt, Breslau. (Feige, p. 58.)

Wohltmann, Ferdinand

1892. Handbuch der tropischen Agrikultur. 440 pp. Duncker and Humblot, Leipzig. (Feigen, pp. 322-24.) Short notes on fruit, native habitat, climate, analyses of dry fruit and ash, production.

Zippel, Hermann

1885. Ausländische Handels- und Nahrungspflanzen zur Belehrung für das Haus und zum Selbstunterrichte. 244 pp. Fr. Vieweg, Braunschweig. (Ficus carica, pp. 223-28. Color pl. 53.) General account; culture, analysis, uses, varieties, history; color plate of green leaves and fruit, flowers, fig wasp.
1906. Ausländische Kulturpflanzen in farbigen Wandtafeln mit erläuterndem Text nach Hermann Zippel, neu bearbeitet von O. W. Thome. 174 pp. Friedrich Vieweg and Sohn, Braunschweig. (Feigenbaum, pp. 85-92.) Notes on tree, flowers, fruit, caprification, culture, uses, varieties, history.

Zippel, Hermann, and Karl Bollmann

- 1876-1889. Ausländische Kulturpflanzen in farbigen Wandtafeln mit erläuterndem Text. 3 vols. Fr. Vieweg, Braunschweig. (Ficus carica, 2:106-111. Illus.) Description of the different crops, the receptacle, flowers, culture, caprification, properties, uses, history.

Zoethout, D. A.

1914. De plant in nijverheid en handel. 395 pp. Elsevier, Amsterdam. (Vijgen, p. 294.) General; distribution, history.

## EUROPE

## Agricola, G. A.

- 1716-1717. Neu- und nie-Erhörter, doch in der Natur und Vernunft wohlgegründeter Versuch der Universal-Vermehrung. 2 vols. Regensburg und Leipzig. Transl. by R. Bradley, London. The experimental husbandman and gardener. 314 pp. W. Mears, London. 1726. (Fig, p: 91.) "A curious Query to propose, viz. Whether the tree of life and death, which Adam and Eve eat of, was a Fig, or an apple-tree"; discussion.

## Anonymous

1718. Arcana hortensia. Das ist; bewehrte Kunst-stuck. 124 pp. M. St. P. Solod. Helv., Costantz. (Von denen Feygen, p. 78-79.)
1902. Illustriertes Gartenbau-Lexikon. 936 pp. Paul Parey, Berlin. (Feigenbaum, p. 285.) Short, general.

## Arendt, N. K.

1939. Results of the work on fig trees at the Nikita State Botanical Gardens. (In Russian.) Lenin Acad. Agr. Sci. U. S. S. R. (Moscow) 14(4):1-40. See also abstract in: Hort. Abs. 10:122. Review of major investigations since 1925 on varieties, breeding, culture.

## Artus, Wilibald

- 1864-1867. Atlas allen in den neuesten Pharmacopoen Deutschlands. 396 pp. Bânsch, Leipzig. (Ficus carica, pp. 304-5. Taf. 231, in color.)
1876. Hand-Atlas sämtlicher medicinisch-pharmaceutischer Gewächse. 2 vols. F. Mauke, Jena. (Ficus carica, 2:555-56.) Color pl. of leaves and fruit. Short account of plant; three kinds received, Smyrna, Greek, and Italian; brief notes on properties.

## Augustinus, Aurelius

- 1870-1878. Saint Augustin. Oeuvres complètes--par Mm. Peronne et al. 34 vols. Louis Vives, Paris. (Figuier, see Index.) Vol. 12:13-14, significance of fig tree without leaves; 16:494, leaves of fig tree; 17:43, 46, 165, sterile fig tree; 25:9, fig of Egypt.

## Baikie, James

1910. The sea-kings of Crete. 275 pp. A. and C. Black, London. (Fig, p. 227.) Fig tree in general cultivation and held to be sacred.



Baldacci, A.

1896. Revista della collezione botanica fatta nel 1894 in Albania. Chambesy Schwitz. Herb. Boissier Bul. 4:609-53. (Ficus carica, p. 650.) Specimens collected in district of Tepelen.

Berg, Otto K.

1845. Charakteristik der für die Arzneikunde und tecknik wichtigsten Pflanzengenera in Illustrationen. 143 pp. L. Nitze, Berlin. (2d ed.) 115 pp. R. Gärtner, Berlin. 1861. (Ficus carica, p. 24. Taf. 22, figure 182.)
1866. Pharmazeutische Botanik. 458 pp. R. Gaertner, Berlin. (Ficus carica, p. 228.) Publ. in 1845 as: Handbuch der pharmaceutischen Botanik. 437 pp. Berlin.

Berg, Otto K., and C. F. Schmidt

- 1858-1863. Darstellung und Beschreibung sämtlicher in der Pharmacopoea Borussica. 4 vols. A. Förstner, Leipzig. (Ficus carica, 3, sect. XIX. Taf. 19a., in color.) References to literature, botany, caprification. Color plate of green leaves, purple fruit, flowers in black.

Bergius, Peter J.

1778. Materia medica e regno vegetabili, sistens simplicia officinalia pariter atque culinaria. 2 vols. P. Hesselberg, Stockholmiae. (Ficus carica, 2:837-40. Taf. 479, in color.) Notes on fruit morphology; observations on properties, uses, caprification.

Birnbaum, Karl, and G. Werner

- 1876-1883. Thiel's landwirthschaftliches Konversations-Lexikon. 7 vols. F. Thiel, Berlin. (Feigenbaum, 3:845-46.) Short; distribution, botany.

Blackwell, Elizabeth

- 1750-1773. Herbarium Blackwellianum. 6 centuriae (in 3 vols.) J. J. Fleischmann, Norimbergiae. (Fig, Tab. 125.) General; parallel columns in Latin and German; color plate of leaves, brown fruit with strawberry pulp.

Elanqui, Jerome A.

1843. Voyage en Bulgarie pendant l'année 1841. 414 pp. W. Coquebert, Paris. (Fig, p. 500.) Mention only, at Constantinople.

Bock, Hieronymus

1551. Kreuterbuch, darinn Unterscheidt, Namen und Würckung der Kreuter, Stauden, Hecken und Beumen, sammt ihren Fruchten, so in Deutschen Landen wachsen. 224 pp. Wendel Rihel, Strassburg. See quotation by Johannus Ursinus (1699) in Arboretum Biblicum.

Boisgelin de Kerdu, Pierre M. L.

1804. Ancient and modern Malta: containing a description of the ports and cities of the islands of Malta and Goza. 3 vols. G. and J. Robinson, London. (Fig, 1:138-48.) General account of fig, caprifig, and caprification.

Bonstedt, C. (Editor)

1931. Parey's Blumengartnerei. 2 vols. Paul Parey, Berlin. (Feigenbaum, 1:495.) Short; botany and general account.

Boretius, Alfredus

1863. Capitularia regum Francorum. 2 vols. In: Monumenta Germaniae historica. Sect. 8, ser. 2. (Feigen, 1:91.) Mention only.

Borg, John

1922. Cultivation and diseases of fruit trees in the Maltese Islands. 622 pp. Govt. Pr. Office, Malta. (Fig, pp. 126-48.) Propagation, culture, caprification, pests, description of 31 varieties.
1927. Descriptive flora of the Maltese Islands. 843 pp. Govt. Pr. Office, Malta. (Fig, p. 104.) Short, general; grows wild in valleys, rocky places, etc.

Bory de Saint Vincent, J. B. G.

1804. Voyage dans les quatre principales îles des mers d'Afrique. 3 vols. F. Buisson, Paris. (Figuiers ordinaires, 3:315.) Mention only.

Böttiger

- (?) Kleine Schriften. Cited by: Felix Goldmann (1911), La Figue en Palestine, p. 37. (Fig, 3:319.)

Buch, Christian L. von

1825. Physikalische Beschreibung der Canarischen Inseln. 407 pp. Berlin. (Feigenbaume, p. 120.) Figs introduced by Mallorcans in 1360.

Burgerstein, Alfred

1894. Biologie und Culturgeschichte des Feigenbaumes. Wiener Illus. Gart. Ztg. 19:93-97. Good account of the fig and caprifig, caprification, production, kinds of figs.

Calloni, Silvio

1881. Notes sur la géographie botanique du Tessin méridionale. Bibliothèque Universelle. Arch. Sci. Phys. et Natur. 5:59-82. Genève. (Ficus carica, p. 66.)

## Calvert, Frank

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. United States Special Consular Reports, Govt. Printing Office, Washington. (Dardanelles, pp. 768-69.) Also in: California State Bd. Hort. Rept. 1890:380-81.

## Christ, Johann L.

1802. Pomologisches theoretisch-praktisches Handwörterbuch. 431 pp. Voss, Leipzig. (Feigenbaum, pp. 241-44.) General; botany, climate, fruiting, varieties.
- 1809-1812. Vollständige Pomologie über das Steinobst, Schalen und Beerenobst. 2 vols. Frankfurt am Main, P. H. Guilhauman. (Feige, 2:387-408. Pls. 20-22, in color.) General account; botany, culture; classes of varieties under red, green and yellow color; two color plates of fruits, one of leaves.
1817. Handbuch über die Obstbaumzucht und Obstlehre. 872 pp. Hermandschen, Frankfurt am Main. (Feigenbaum, pp. 816-20.) Much same as in other works of author.

## Claassen, C. H., J. G. Hazeloop, and A. M. Sprenger

1931. Leerboek voor de Fruitteelt. 455 pp. 2 vols. W. E. J. Tjeenk Willink. (De vijg, pp. 184-85.) Short, general.

## Condit, Ira J.

1924. European fig culture. Associated Grower 6(1):9, 10, 24, 3 figures, Jan.; (4):8, 9, 2 figures, April; (5):6, 19, 2 illus. May; (6):10, 11, 2 illus. June; (7):14, 15, 2 illus. July. General observations after visit to fig districts bordering the Mediterranean Sea; propagation, culture, soil, caprification, pests, sanitation in packing houses, products, uses.

## Cordus, Valerius

1563. Stirpium descriptionis liber quintus. Argentorati. 130 pp. Ed. nova, Norimbergae, 1751. (Fig, p. 184.)

## Cornely, C.

1844. Der niederrheinische Obstgarten. 2 vols. M. Urlichs Sohn,, Aachen. (Feigenbaum, 2:107-110.) General; propagation, culture, few varieties listed.

## Dalechamps, Jacques

1587. Historia generalis plantarum in libros XVIII.-- 2 vols. G. Rovillium, Lugduni. (*Ficus carica*, Liber III, pp. 335-40. 2 illus.) References to literature; botany, distribution, uses.

David, Charles W.

- (?) Narratio de itinere navali peregrinorum hierosolymam tendentium et silvium capientium, A. D. 1189. Ed. from ms. in the library of the Turin Academy of Sciences, by Charles Wendell David, Bryn Mawr College. In: Amer. Phil. Soc. Proc. 81:591-668.) (Fig trees (ficulneas) burned at Cadiz, p. 639.)

Desfontaines, René L.

1800. Flora Atlantica. 4 vols. Flanchon, Parisiis. (Ficus carica, 2:396.) Short; references to literature; botany, distribution.

Déville, Nicolas

1737. Histoire des plantes de l'Europe. 2 vols. Lyon.  
(Figuier, 2:801. One figure.) Short, general; uses.

Dierbach, Johann H.

- 1836-1839. Grundriss der allgemeinen ökonomisch-technischen Botanik. 2 vols. Karl Groos, Heidelberg. (Feigenbaum, 1:69-72.) General; botany, varieties, culture, a compiled account.

Dietrich, Friedrich G.

- 1802-1810. Vollständiges Lexicon der Gärtnerei und Botanik. 10 vols. Gebrudern Gadické, Weimar. (Ficus carica, 4:166-68.) Distribution of the tree in Weimar and German gardens.

Dippel, Leopold

- 1889-1893. Handbuch der Laubholzkunde. 3 vols. Paul Parey, Berlin. (Ficus carica, 2:20.) Short description of tree, leaves and fruit.

Dragendorff, Georg

1898. Die Heilpflanzen der verschiedenen Völker und Zeiten. 884 pp. Ferd. Enke, Stuttgart. (Ficus carica, p. 172.) Short; history, distribution.

Duchartre, Pierre E. S.

- 1845-1857. Flore des jardins de l'Europe. Manuel général des plantes, arbres et arbustes. 4 vols. V. 4 par Duchartre avec la collaboration de MM. Carrière et Naudin. (Figuier, Ficus, 4:155-61.) Botany, classification after Gasparrini 1845; good descriptions of 17 white, 13 colored, and 5 black figs.

Dufour, L.

1855. Cours élémentaire sur les propriétés des végétaux et leur applications. 499 pp. Joël Cherbuliez, Genève. (Ficus carica, pp. 172-74.) General account of tree, fruit, caprification, uses, properties.

Eichelberg, Johann F. A.

1845. Naturgetreue Abbildungen und ausführliche Beschreibungen aller in- und ausländischen Gewächse. 293 pp. Meyer und Zeller, Zürich. (Der gemeine Feigenbaum, pp. 156-62. Taf. 36, in color.) Account of the tree, fruit, flowers, varieties, culture, uses, markets; color plate of leaves and brown fruit.

Engler, Adolf

1879. Versuch einer Entwicklungs-geschichte der extratropischen Florengebiete der nördlichen Hemisphäre. 386 pp. Wilhelm Engelmann, Leipzig. (Ficus carica, p. 49.) In: quaternären Tuffen von Toscana, Montpelier.

Evans, Arthur J.

1876. Through Bosnia and Herzegovina on foot. 435 pp. Longman, Green & Co., London. (Fig, p. 323.) Figs both wild and cultivated.

Fedchenko, B. A.

1941. /The bulletin of dry sub-tropical crops./ Federal Res. Inst. Stalinabad. (In Russian.) Sovet. Botan. 1941 (5,6): 104-5. Abstracted in: Hort. Abs. 13:191.

Fischer-Benzon, Rudolph von

1894. Altdeutsche Gartenflora. 254 pp. Lipsius & Tischer, Kiel. (Feigenbaum, pp. 23, 157, 184, 186, 216.) Short history and description of common fig; various other references.

Fuchs, Leonhard

1543. New Kreuterbuch. 438 pp. Michael Isingrin, Basell. (Fig, chap. 299, figure 434.)

Gaerdt, H., and E. Reide

1878. Wredow's Gartenfreund. 736 pp. Rudolf Gaertner, Berlin. (Feigenbaum, p. 709.) Short, general.

Gaucher, Nicolas

1908. Handbuch der Obstkultur. (4th ed.) 1030 pp. Paul Parey, Berlin. (Feigenbaum, pp. 27, 34, 481, 490, 502, 815-16.) General; propagation, culture.

Gaudin, Charles T., Piraino, and Carlo Strozzi

1860. Contributions à la flore fossile Italienne. Quatre mémoires. Schweiz. Naturf. Gesell. Neue Denkschr. 17. Zürich. (Feigen, p. 10.) See: Royal Soc. Cat. Sci. Papers 2:784.

Gaudin, Jean F. G. P.

- 1828-1833. Flora helvetica. 7 vols. Orell, Fussli et Co., Turici. (Ficus carica, 6:333.) Short botanical description and references.



Gaudry, Jean A.

1855. Recherches scientifiques en Orient. Partie agricole. 446 pp. Impr. Impériale, Paris. (Fig, p. 180.) Trees abundant in Cyprus; fruit inferior to that of Provence; Quotes Pliny, XV, cap. XVI: "E Cypreio fico et acetum sit praecellens."

Geikie, James

1914. The antiquity of man in Europe. 348 pp. D. van Nostrand Co., New York. (Fig, pp. 13, 15.) Plant remains in tufa of Pleistocene include fig tree.

Gesner, Konrad

1561. Hortis Germaniae, Folio 236-300. Argentorati. (Ficus, folio 258.) According to F. A. Flückiger (1891), Pharmacognosie, Gesner mentioned fig tree as a cultivated plant which in a Strasburg garden bore ripe fruit two years.

Goldbeck

- (?)Verhandl. des Vereins zur Beforderung des Gartenbaues in den K. Preuss. Staaten. Bd. 3:371-73. Cited by: Dierbach, 1836.

Graebner, Paul

1929. Lehrbuch der allgemeinen Pflanzengeographie. 320 pp. Quelle und Meyer, Leipzig. (Feige, pp. 87, 151, 153.) Fossil figs; distribution; seedlings.

Graebner, Paul, and W. Lange

- 1926-1927. Illustriertes Gartenbau-Lexikon. 2 vols. Paul Parey, Berlin. (Feigenbaum, 1:333.) Short, general.

Gran, Kaj, Hj. Jensen, and A. Mentz

1937. Nytteplanter. 503 pp. Gyldendal, Kobenhavn. (Ficus, pp. 186, 427.)

Grech Delicata, Johann K.

1853. Flora Melitensis. 49 pp. F. W. Franz, Melitae. (Ficus carica, p. 33.) Listed and one line of description.

Gressent, Vincent A.

1894. Gressent's einträglicher Obstbau. (3d ed.) 526 pp. Paul Parey, Berlin. (Feigenbaum, pp. 369-72. Figures 358-60.) General; culture, winter protection. See also: 13th ed. 1080 pp. Paris. (Figuiet, pp. 777-83. Figures 375, 376.)

Grisebach, August R.

- 1843-1845. Spicilegium florae Rumelicae et Bithynicae. 2 vols. F. Vieweg, Brunsvigae. (Ficus carica, 2:331.) Brief account, after Hayne.

Groen, Jan van der

1670. Den nederlandsen hovenier. 96 pp. M. Doornick, Amsterdam. (Other eds. 1672, 1721.) (Van de Vijgheboomen, p. 3.) Culture; winter protection.

Guimpel, Friedrich

- 1819-1825. Abbildung der Fremden in Deutschland ausdauernden Holzarten, mit Angabe der Culture von F. Otto, beschrieben von F. G. Hayne. 24 vols. G. Reimer, Berlin. (Ficus carica, 1:132-34. Taf. 108, in color.) Short account of flowers, caprification; color plate of leaves and purplish fruit.

Gulia, Gavino

1888. Colonial fruit. Malta. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:234-43. (Fig, p. 235, 242.) Wild figs produce small and delicate fruits; notes on varieties.

Hansen, Adolph

1914. Repetitorium der botanik. 224 pp. A. Töpelmann, Giessen. (Ficus carica, p. 150.) Brief.

Hawes, C. H., and Harriet A. Hawes

1911. Crete, the forerunner of Greece. 161 pp. Harper and Bros., New York. (Fig, p. 37.) The fig tree was known and cherished as proved by frequent representation.

Hayne, Friedrich G.

- 1805-1846. Getreue Darstellung und Beschreibung der in der Arzneikunde gebräuchlichen Gewächse. 14 vols. Kosten des Verfassers, Berlin. (Ficus carica, Vol. 9. Taf. 13 in color.) Short account of tree, flowers, fruit, caprification; color plate same as that of Guimpel, 1, taf. 108. 1825.

Hegetschweiler, Johannes

1840. Flora der Schweiz. 1135 pp. Fr. Schulthess, Zürich. (Feigenbaum, pp. 889, 933.) Short, general.

Hegi, G., and G. Dunzinger

- 1907-1931. Illustrierte Flora von Mittel-europa. 7 vols. J. F. Lehmann, München. (Ficus carica, 3:125-27. Taf. 87, in color, and figures 498, 499.) General; plant, flowers, caprifig and caprification; distribution; small green leaves and fruit in plate 87.

Heitland, W. E.

1921. Agricola: a study of agriculture and rustic life in the Greco-Roman world from the point of view of labour. 492 pp. The Macmillan Co., New York. (Fig, pp. 45, 108, 266, 283, 463.) Various references to Greek and Roman writers.

## Hildegardis de Pingua (1099-1179.)

1533. *Physica* S. Hildegardis. 287 + 79 pp. Argentorati. 1855 ed. J. P. Migne, Paris. 1384 pp. See: Analecta Sanctae Hildegardis Opera-- ed. Joannes B. Card. Pitra. 1882. (Fickbaum, p. 499.) Taken for granted that in 1150 fig trees already planted in numbers in the Disiboden Cloister gardens.

## Hoffmann, Christian

1670. Ficus arbor philologice considerata. 40 pp. Bauhofer, Jenae. Reference in: Fritzel's Thesaurus, p. 146.

## Höfler, Max

1899. *Deutsches Krankheitsnamenbuch*. 922 pp. Piloty and Loehle, Muenchen. (Feige, p. 126-27.) Good cross references to nomenclature, medicinal properties, and diseases having some resemblance to fig pulp or parts of fig.

## Hondius, Petri

1621. *Dapes inemptae, de Moufe-Schans*. (Vijgen, p. 64.) Transl. by Dr. L. Koch, Aardenburg, Holland, Feb. 18, 1953, in letter.

Non-flowering figs are also found  
On the milldike,  
And are also found in other places  
Long and blue; both of them  
Bring in our Terneuzen climate  
Many hundred of their fruit  
Ripe, and do honor  
To my dish just as I like.

## Hurtel, Michael

1820. *Ueber den Zustand der Industrie und des Handels im Konigreiche Dalmatien aus amtlichen Quellen*. Wien K. K. Polytech. Inst. Jahrb. 2:106-30. (Ficus carica, p. 111.)

## Husemann, August, and Theodor Husemann

1882. *Die Pflanzenstoffe in chemischer, physiologischer, pharmakologischer und toxokologischer Hinsicht*. 1178 pp. (2d ed.) J. Springer, Berlin. (Ficus carica, pp. 509, 510.) Short; mostly other species of Ficus.

## Ickx, Hendrick, en Gerard Ickx

1946. *Praktische wenken over fruitteelt*. 19th rev. 352 pp. De Bievre, Brasschaat. (Vijgeboom, pp. 242-43.) General; culture, winter protection.

## Jäger, H.

1882. *Allgemeines illustriertes Gartenbuch*. 796 pp. P. Cohen, Hannover. (Ficus carica, p. 732.) Brief.

Jahn, O.

1861. "Über Darstellungen antiker Reliefs, welche sich auf Handwerk und Handelsverkehr beziehen. Sächs. Akad. der Wiss., Phil.-Hist. Klasse Ber. 1861:291-374. (Feige, p. 368. Taf. x, 3.) Small figure shows a fig handler weighing out figs in a scale pan.

Jonston, Johan

1662. Dendrographias sive historiae naturalis de arboribus et fructibus tam nostri quam peregrini orbis. 477 pp. H. Polichii, Francofurte. (De ficu, pp. 46-53. 2 figures.) Ancients presented five kinds of figs; more recently four are given.

Kalmykov, S. S.

1940. /Subtropicals in Kazakh S. S. R./ (In Russian.) Soviet Subtropics 1940, (4):26-27.

Karsten, Hermann

1895. Flora von Deutschland. Oesterreich und der Schweiz. 2 vols. F. G. Köhler, Gera. (Ficus carica, 2:25-26. Figure 334.) Short; general.

Kelaart, Edward F.

1846. Flora Calpensis. Contributions to the botany and topography of Gibraltar. 219 pp. John Van Voorst, London. (Ficus carica, p. 151.) Trees observed to grow in fissures of rocks where there is scarcely any soil; a gigantic tree in Mr. Bracebridge's garden, trunk 48 feet (?) in circumference, upwards of 200 years old.

Kerner, Anton J.

1855. Flora der Bauerngärten. See p. 38. Cited by Hoffmann in Gartenflora, 25:199. 1876.
1888. Pflanzenleben. 2 vols. Bibliogr. Institut, Leipzig. (Ficus carica, 2:154, figure.)

Kirchner, /Oskar/

1898. Die Feige und ihre Befruchtung. Ver. f. Vaterl. Naturk. in Württemb. Jahresh. 54(Sitzungsber.):72-74. Abstract of address on fig and caprifigation.

Klar, Joseph

1917. Unser Tropenobst und einige Winke über dessen Verwendung. Tropenflanzer 20:266-72.

Klause, M.

1836. Notes of a gardening tour from Berlin through part of Prussia, Saxony, Germany, Hungary, Switzerland, and Italy. Gardener's Mag. (London) 1836:6-12. At Dresden, enormously large fig trees in the open air and only require slight covering in winter; trees 200 years old.

## Klette

1826. Über die Feigen in Dalmatien und die Benützung des Farbestoffes aus den Feigenbäumen befindlichen Insekten. Wien K. K. Polytech. Inst. Jahrb. 9:131-34. Supplement to article in Jahrbucher 2:111; deals with fig as a product, quantity and quality.

## Kniphof, Johann H.

- 1759-1761. Botanica in originali seu herbarium vivum....12 Centuriae vel 2 vols. 1200 taf. Joh. G. Trampe, Halae. (Ficus carica, 2, Taf. 1165.) Poor color illustration of leaves and one green fruit.

## Knoop, Jean Herman

1771. Fructologie, ou description des arbres fruitiers. 206 pp. M. Magerus, Amsterdam. (Figuier, pp. 94-104. Tab. 7.) Varieties, culture, climate, caprification, uses, markets; poor color plate of leaves and fruit. Ed. of 1763, Vyge-Boom, pp. 58-64.
1790. Beschryving van vruchtboomen en vruchten. 69 pp. Color pls. Allart, Amsterdam. (Fig, pp. 32-35.) Much same as in Fructologie, 1771; poor color plate.

## Knorr, Georg W.

- 1770-1772. Thesaurus rei Herbariae hortensisque Universalis. G. W. Knorr, Nurnberg. (Feigen, 1:16-29.) Latin and German text in parallel columns; plant characters, natural history, distribution, medicinal properties and uses, kinds of figs, crude illustration in color of leaves and fruit.

## Koch, Karl

1849. Beiträge zu einer Flora des Orientes. Linnaea 22:597-752. (Ficus carica, p. 603.) (a) Genuina, found 500 to 2000 feet elevation at Constantinople; (b) integrifolia, found along sea coast.
1876. Die Deutschen Obstgehölze. 628 pp. Ferdinand Enke, Stuttgart. (Feigen, pp. 33, 40.) Short.

## Koch, Wilhelm D. J.

- 1843-1845. Synopsis florae Germanicae et Helveticae. (2d ed.) 1164 pp. Gebhardt et Reisland, Leipzig. (Ficus carica, p. 734.) Ed. 3. 875 pp. 1857. (Ficus carica, p. 552.)
1846. Synopsis der Deutschen Schweizer Flora. 1210 pp. Gebhardt et Reisland, Leipzig. (Ficus carica, p. 755.) Cultivated in warmer districts and grows wild in southern Tyrol.



## Konrad von Megenberg

1861. Das Buch der Natur---- herausgegeben von Franz Pfeiffer. 807 pp. Karl Aue, Stuttgart. (Von dem Veigenpaum, pp. 322-23.) Short account from Pliny, Isidorus, on medicinal effects.

## Kormilitsyn, A. M.

1940. /The Institute of the Arid Subtropics at the Pan-Union Exhibition./ Soviet Subtropics 1940(9):19-23.

## Kovalev, N. V.

1941. /Wild fruit plants of the Caucasus and their role in the Peoples' economy./ Priroda 1941(5):44-55. Abstracted in: Plant Breeding Abs. 12:162.

## Koydl, S.

1942. Vom Obstbau in Kroatien. Ein Kurzbericht. Deut. Obstbau. 57:200-3. Abstracted in: Gartenbauwissenschaft 17:115.  
1943. See also: Hort. Abs. 14:62.

## Krunitz, Johann G.

- 1773-1858. Oekononische Encyklopädie. 242 vols. J. Pauli, Berlin. (Feigen, 12:433-67.) General account; caprification, varieties, culture, winter protection, handling the crop.

## Lacroix, Paul

1874. Manners, customs and dress during the Middle Ages and during the renaissance period. 554 pp. D. Appleton & Co., New York. (Fig, pp. 116, 118.) Four different sorts of figs in equal estimation brought from Marseilles; dried figs from Malta "without end" as mentioned in the "Book of Street Cries in Paris".

## Lagarde, Paul de

1881. Ueber die semitischen Namen des Feigenbaumes und der Feige. K. Gesell. der Wiss. zu Göttingen Nach. 1881:368-96. Excellent account of ancient history and home of the fig, nomenclature, Biblical references, comments on use of leaves as aprons.

## Lange, Theodor

1908. Allgemeines Gartenbuch. 2 vols. Otto Spamer, Leipzig. (Feigenbaum, 2:319-20.) Short, general.

## Lauche, Wilhelm

1880. Deutsche Dendrologie. 727 pp. Wiegandt, Berlin. (Ficus carica, pp. 343-44.)

## Leibizer, Johann

1798. Vollständiges Handbuch der Obstbaumzucht. 538 pp. Aloys Doll, Wien. (Feigenbaum, pp. 449-53.) Short; culture, varieties not specific names.

Lenz, Harald O.

1859. Botanik der alten Griechen und Römer. 776 pp. Thienemann, Gotha. (Feigen, pp. 128, 134, 135, 141, 143, 421-27.)  
Account gleaned from Theophrastus, Pliny, Columella, and other sources.

Lobel, Matthias de

1576. Nova stirpium adversaria, materiam medicam. Part 1. (*Ficus*, p. 442.) Part 2. Plantarum, seu stirpium historia. 671 pp. C. Plantin, Antwerp. (*Fici*, pp. 612-13.)

1581. Plantarum seu stirpium icones. 2 vols. in 1. C. Plantini, Antwerp. (Fig, 2:197.)

Ludwig, Christian G.

1760. Ectypa vegetabilium usibus medicis. 96 pp. 200 pls.  
J. G. Trampe, Halle. (Feigenbaum, pp. 52-53. Pl. 109.)  
Brief.

Luerssen, Christian

- 1879-1882. Handbuch der systematischen Botanik. 2 vols. H. Haessel, Leipzig. (*Ficus carica*, 2:525.) Short, general.

MacCurdy, G. G.

1924. Human origins. 2 vols. D. Appleton and Co., New York.  
(Fig, Vol. 1:40.) Interglacial remains of plants in  
Seine Valley include fig, winters must then have been  
mild.

Mann, Johann G.

1828. Deutschlands wildwachsende Arznei-Pflanzen. 185 pp. 186  
color pls. M. A. Kornicker, Stuttgart. (*Ficus carica*,  
pl. 131, with text.)

Marcus, August

1943. Handbuch der tropischen und subtropischen Landwirtschaft.  
2 vols. E. S. Mittler & Sohn, Berlin. (Feigenbaum, 2:  
139-42. 2 figures.) General account of botany, caprifica-  
tion, climate, culture, uses, diseases.

Marter, Franz J.

1796. Verzeichnis der Oestreichischen Bäume und Straucher. (3d ed.)  
466 pp. J. Stahel and Co., Wien. (*Ficus carica*, p. 99.)  
Short, general.

Meigen, Johann W.

- 1836-1842. Deutschlands Flora. 3 vols. Bâdeker, Essen. (*Ficus carica*, 2:3. Taf. 50.) Short, general; small figures of  
fruit and flowers.

Meyer, Ernst H. F.

1854-1857. Geschichte der Botanik. 4 vols. Bornträger, Königsberg. (Feigenbaum, 3.) Fruits not listed in index; apparently mentioned in various places as on p. 283.

Micallef, G.

1938. Malta Dept. Agr. Report 1936-37:1-77. (Fresh figs, p. 19.)  
See also: Report 1935-36:18.

Murith

1810. Le guide du botaniste qui voyage dans le Valais, avec un catalogue des plantes de ce pays et de ses environs. 107 pp. Henri Vincent, Lausanne. (Ficus carica, p. 68.) Grows spontaneously in the vicinity of Martigni, Sion, Contey.

Nees von Esenbeck, T. F. L.

1833-1860. Genera plantarum florae Germanicae, iconibus et descriptionibus illustrata. Fasc. 1-30 in 8 vols. Henry et Cohen, Bonn. (Ficus carica, 4:33.) Short description of male and female flowers and fruit; drawings of various parts.

Nees von Esenbeck, T. F. L., and C. H. Ebermaier

1830-1832. Handbuch der medicinisch-pharmaceutischen Botanik. 3 vols. Arnz & Co., Düsseldorf. (Ficus carica, 1:348-50.)

Nees von Esenbeck, T. F. L., et al.

1828. Plantae officinales. 2 vols. Arnz & Co., Düsseldorf. (Ficus carica, 1: Taf. 97, in color.) Botanical description, references and general account; color plate of leaves and fruit.

Neger, F. W.

1913. Biologie der Pflanzen auf experimenteller Grundlage. 775 pp. F. Enke, Stuttgart. (Ficus carica, pp. 624-25.) Figure 259. Botany, caprification.

Nesterenko, G.

1949. /Subtropical culture in new regions./ (In Russian.) Kolhoznoe Proizvodstvo 1949(1):26-27. Abstracted in: Hort. Abs. 20:134. Fig included.

Nesterenko, G. A., and A. D. Strebkova

1949. Inzhir. 63 pp. 10 figures. (In Russian.) Gosudarstvennoe Izdatel'stvo Sel'skokhoziaistvennoi Literatur'i, Moskva. General account of culture and varieties.

/Neubert, Wilhelm/

1877. Ein historischer Feigenbaum. Neubert's Deutsch. Mag. f. Gart. und Blumenk. 1877:276-79. History of tree, Univ. of Tübingen.

Oken, ~~/Lorenz/~~

- 1833-1841. Allgemeine Naturgeschichte für alle Stände. 7 vols. in 13. Hoffman, Stuttgart. (Feigenbäume, 3:1558-59.) Short, general on tree, fruit, caprification.

Oskamp, D. L.

- 1796-1800. Afbeeldingen der Artseny-gewassen. 6 vols. Amsterdam. (Fig, 6: taf. 516.)

Oosten, Henry van

1703. The Dutch gardener: or, The compleat florist. English ed. 292 pp. D. Midwinter and T. Leigh, London. (Of the fig tree, Chap. XVIII, pp. 35, 36.) "This never showeth flower nor blossom"; frost and winter protection, walnut shells increase production.

Passecker, F.

1947. Sudtirol als Obst- und Gartenland. Garten Ztschr. Illus. Flora 70:44-48. (Die Feige, p. 45.) Figs being grown in warmer zones.

Pertz, G. H.

1848. Monumenta Germaniae historica. (Feigenbaume, 3:186, 187.) Cited by Fischer-Benzon, 1894, p. 183.

Petermann, Wilhelm L.

1849. Deutschlands Flora. 668 pp. G. Wigand, Leipzig. (Feigenbaum, pp. 506-7. Taf. 79, figure 626, in color.) Brief account; figure of small fruit cross section and flowers, former only in color.

Plenck, Joseph J.

1784. Bromatologia seu doctrina de esculentis et potulentis. 428 pp. R. Graeffer, Vienna. (Feige, pp. 122-23.) Short; properties and uses.

- 1788-1803. Icones plantarum medicinalium---- 8 vols. R. Graeffer, Vienna. (Ficus carica, 8: Taf. 736, in color.)

Pokorny, Alois

1864. Plantae lignosae imperii Austriaci. Oesterreichs Holzpflanzen. 524 pp. K. K. Hof- und Staatsdruckerei, Wien. (Ficus carica, p. 477. Taf. 14, figures 156, 157.) Botanical description of leaf and illustrations of two five-lobed leaves.

Pouqueville, Francois C. H. L.

1805. Voyage en Moree, à Constantinople, en Albanie, et dans plusieurs autres parties de l'Empire Othoman, pendant les années 1798, 1799, 1800 et 1801. 3 vols. Gabon & Co., Paris. (Figuier, 1:449.) Short; drying, caprification, in Greece; exported from Calamatta.

Pritzel, George A., and C. Jessen

1882. Die deutschen Volksnamen der Pflanzen. 701 pp. P. Cohen, Hannover. (Feigen, p. 152.) List of names for the fig in various countries.

Ramaer, H.

1935. A short illustrated history of botany in the Netherlands. Chron. Bot. 1:380-83. (812 A.D. Charlemagne tries unsuccessfully to acclimatize laurels and figs at Nijmegen, p. 380.)

Regel, K.

- 1872-1873. Das mittelmiederdeutsche Gothaer Arzneibuch und seine Pflanzennamen. Schulprogramm, Gotha. Cited by R. Ravasini (1911), Die Feigenbäume Italiens, p. 23.

Reichenbach, H. G. L., and Gustav H. Reichenbach

- 1834-1870. Icones florae Germanicae et Helveticae. 22 vols. Lipsiae. (Ficus carica, 12: Taf. 659, in color.)

Reinhardt, Ludwig

1911. Kulturgeschichte der Nutzpflanzen. 2 vols. E. Reinhardt, München. (Ficus carica, 1:129-39, figures 13, 14; pl. 19, 1 figure.) Ancient history, climatic requirements, distribution, medicinal value, caprification.

Riemens, J. M.

1953. Fruitteelt onder glas. 151 pp. Illus. P. Noordhoff, Groningen. Abstracted in: Hort. Abs. 23:564.

Rietsema, I.

1939. Vierde beschrijvende russenlijst voor fruit, 1938-39. (The 4th descriptive list of fruit varieties.) 86 pp. Den Nederl. Algem. Keurings Dienst. (Netherlands.) Abstracted in: Hort. Abs. 9:115. Figs included.

Rikli, M.

1903. Botanische Reisestudien auf einer Frühlingsfahrt durch Korsika. 140 pp. Fasi & Beer, Zürich. Separat aus: Naturf. Gesell. in Zürich Vrtljschr. 47, 3 und 4. 1902. (Ficus carica, p. 79.) Large trees often seen.
1912. Lebensbedingungen und Vegetationsverhältnisse der Mittelmeerländer und der atlantischen Inseln. 171 pp. G. Fischer, Jena. (Feige, see index.) Mentioned as cultivated with other fruits; in Azores fruit exported.

Rjabov, I. N.

1939. Results of 125 years' work on fruit production at Molotov's Nikita Botanical Garden. (Figs.) Abstracted in: Plant Breed. Abs. 10:274. Lenin Acad. Agr. Sci., U. S. S. R., (Moscow) 1939:79-135.



Röhlings, I. C.

1812-1813. Deutschlands Flora. 3 vols. F. Wilmans, Frankfurt am Main. (Ficus, 2:541.)

Royen, Adriani

1740. Florae Leydensis prodromus. 538 pp. S. Luchtman, Lugduni Batavorum. (Caprificus, Ficus communis, Erinosyce, p. 211.) Mention only.

Schimper, A. F. W.

1898. Pflanzengeographie auf physiologischer Grundlage. 876 pp. Jena. (Ficus carica, p. 609.) Engl. transl. by W. R. Fisher, 1903. 839 pp. Clarendon Press, Oxford. (Ficus carica, p. 579. Figure 321.) 1935 ed. 2 vols. G. Fischer, Jena. (F. carica, 1:247; 2:871, 1394.) Brief; refers to caprification; distribution.

Schkuhr, Christian

1808. Botanisches Handbuch der Mehrstentheils in Deutschland. 4 vols. G. Fleischer, Leipzig. (Ficus carica, 4:355. Taf. 358, in color.)

Schlechtendal, D. F. L. von

1830-1837. In: Friedrich Guimpel. Abbildung und Beschreibung aller in der Pharmacopoea Borussica aufgeführten Gewächse. 3 vols. L. Oehmigke, Berlin. (Ficus carica, 1:139-40. Taf. 69, in color.)

Schlechtendal, D. F. L., C. E. Langethal, and Ernst Schenk

1880-1888. Flora von Deutschland. 31 vols. F. E. Köhler, Gera. (5th ed.) (Ficus carica, 9:250-51. Taf. 908, in color.)

Schneider, Camillo K.

1903. Dendrologische Winterstudien. 290 pp. G. Fischer, Jena. (Ficus carica, p. 100. Figure 112 f-h, p. 239.) Short description and figures of twig, buds, and wood.

1904-1912. Illustriertes Handbuch der Laubholzkunde. 2 vols.

Jena. Issued in 12 lfgs. "Handbuch der Laubholzkunde."

(Ficus carica rupestris 1:237, figure 151; 242, figures 156, 158.)

Schnizlein, Adelbert

1843-1870. Iconographia familiarum naturalium regni vegetabilis.

4 vols. Max Cohen, Bonn. (Ficus carica, 2. Taf. 92, figures 24-26.) Short, general account of Ficus under Moreae; crosssection of fig, pistillate and staminate flower in figure.

Schouw, Joachim F.

1859. The earth, plants and man. 246 pp. Transl. by Arthur Henfrey. Henry G. Bohn, London. (Figs, pp. 35, 80.) Fig trees at Pompeii; at 2500-6000 feet elevation on Mt. Etna, fig trees gradually disappear.

Schubert, G. H. von

- 1827-1831. Reise durch das südliche Frankreich und durch Italien. 2 vols. J. J. Palm und E. Enke, Erlangen. (Ficus carica.)

1887. Naturgeschichte des Pflanzenreichs....bearbeitet von Moritz Willkomm. 77 pp. J. F. Schreiber, Stuttgart. (Ficus carica, p. 57. Figure 4, taf. 49.) Short account.

Schultz, Franz J.

- 1792-1804. Abbildung der in- und ausländischen Bäume, Stauden und Strauche, welche in Oestreich fortkommen. 3 vols. Sammer, Wien. (Ficus carica, 2. Taf. 200, in color.)

Schwendener, Simon

1872. Aus der Geschichte der Culturpflanzen. 67 pp. B. Schwabe, Basel. (Feigenbaum, pp. 15, 18.) Cultivated since ancient times; brief history and legends.

Scopoli, Joannis A.

1772. Flora Carniolica. 2 vols. Krauss, Vienna. (Fico, 2: 283.) Very brief.

Semple, Ellen C.

1931. The geography of the Mediterranean region, its relation to ancient history. 737 pp. Henry Holt & Co., New York. (Fig, pp. 390-92, 394-97.) Historical account; caprification.

Smith, William

1872. Dictionary of Greek and Roman antiquities. 1124 pp. 3d Amer. ed. by Charles Anthon. Harper & Bros., New York. (Ficus, the fig tree, p. 441.) References to ancient authors such as Eustathius and Galen.

Spranck, H.

1881. Die Wälder Europa's während der Tertiarperiode im Vergleich zu denen der Jetztzeit. Neues Jahrb. für Min., Geol., und Palaeon. 2. (Ficus carica.) Abstracted in: Just's Bot. Jahresber. 9:249-50.

Sprengel, Kurt

1817. Geschichte der Botanik. 2 Theil. F. A. Brockhaus, Leipzig.  
(Ficus carica, 1:11, 36.) Short.

Sprenger, Phillip S.

1597. Horti medici catalogus arborum fructicum ac plantarum  
tam indigenarum quam exoticarum. 44 pp. J. Spiess,  
Francofurti. According to J. Wilde (1933), Sprenger gives  
three kinds of figs, Ficus maior, F. minor and F. indica.

Strebkova, A. D.

1935. [Subtropical fruit plant varieties in Azerbaydjan.]  
Soviet Subtropics (Moscow) 7:43-51. 6 figures.

Szabo, Ferenc

1883. A vadféle es a jofele fűge. (The wild and the cultivated  
fig.) Termesz. Közlelőny 15:230-35. Reference in: Bradley  
Bibliography 2:150.

Tchernenko, V. C.

1949. Le figuier. (In Russian.) Verger et Jardin Potager 1949  
(3):23-25. Abstracted in: Fruits d'Outre-Mer 5:156.

Thome, Otto W.

- 1886-1934. Flora von Deutschland. 12 vols. in 17. F. Kohler,  
Gera-Untermhaus. (Feige, 2:32-33. Pl. 16.) Short, general;  
botany; color plate of green leaves and brown fruit.

Trevor-Battye, A.

1913. Camping in Crete, with notes upon the animal and plant  
life of the island. 308 pp. Charles Scribner's Sons,  
New York. (Fig, p. 146.) Mention only.

Turrill, W. B.

1926. Plant life of the Balkan peninsula. 490 pp. Univ. Press,  
Oxford. (Fig, p. 235.) Ficus carica possibly native;  
widely cultivated, but extensive groves found only in  
Greece.

Van Wijk, H. L. G.

1911. A dictionary of plant names. 1444 pp. M. Nijhoff, The  
Hague. (Ficus carica, pp. 543-44.) List of names for the  
tree, the fruit, products.

Vegetius Renatus, F.

1903. Digestorum artis mulo-medicinae libri, ed. E. Lommatzsch.  
343 pp. Teubner, Leipzig. (Ficus, Bk. 2, 48, 3; Bk. 3,  
28, 15.) Cited by Tenney Frank (1938), Economic survey of  
ancient Rome.

Velenovsky, Josef

1909. Vergleichende Morphologie der Pflanzen. 3 vols. Fr.  
Rivnac, Prag. (Ficus carica, 3:806.)

Vielheuern, Christophoro

1676. Gründliche Beschreibung fremder Materialen Ursprung.  
240 pp. Johann Fritzsche, Leipzig. (Ficus, pp. 83-84.)  
Brief history; Biblical references.

Vietz, Ferdinand B.

- 1800-1820. Icones plantarum medico-oeconomico-technologicarum.  
10 vols. Schrömbel, Wien. (Ficus carica, 1. Taf. 42, in  
color.) Reference in: Bradley Bibliography 3:51.

Vogel, B. C.

- 1750-1773. In: C. J. Trew. Plantae selectae quarum imagines  
ad exemplaria naturalia Londini, in hortis curiosorum  
nutrita, manu artificiosa doctaque pinxit G. D. Ehret.  
56 pp. 100 pls. Norimbergae. (Ficus carica, pp. 37-40.  
Pls. 73, 74.)

Volkamer, J. G.

1700. Flora Noribergensis. 407 pp. Michaelianis, Noribergae.  
(Ficus vulgaris, p. 168.)

Walpert, H.

1852. Alphabetisch synonymisches Wörterbuch der deutschen  
Pflanzennamen. 205 pp. Magdeburg. Cited by J. Britten and  
R. Holland (1878-1886).

Warburg, Otto

1913. Die Pflanzenwelt. Vol. 1. 619 pp. Bibl. Institut, Leipzig  
und Wien. (Ficus carica, pp. 407, 483-84. Figures 147,  
148.) Short account of tree, distribution, history;  
photograph of small tree as cultivated in California.

Webb, Philip B., and Sabin Berthelot

- 1836-1850. Histoire naturelle des îles Canaries. Sectio 1-4.  
Béthune, Paris. (Figurier, 1:40, 63, 111, 117, 186. Ficus  
carica, 3:257-58.) Figs cultivated extensively in Madeira  
and the Canaries; found at rediscovery of later in 14th  
Century.

Wellman, H. R.

1950. The market for dried fruit in Belgium. California Fruit  
News 122(3260):3, 4. Dec. 30. Heavy imports of dried figs  
in postwar period (1946-49), but demand only temporary.

Wilde, Julius

1933. Die feige, Ficus Carica L., in der Pfalz und das  
Capitulare de Villis Imperialibus, Kapitel 70. Pfäl-  
zisches Mus. Jahr. 1933, Heft 1/4:29-34. References to  
ancient authors, St. Hildegard, Albertus Magnus, Megen-  
berg; comments, tree in Pfalz at least 120 years old.

Willis, Robert

1848. Description of the monastery of St. Gall, in the ninth century. *Archaeol. Jour.* 5:85-117. Fig planted in the physick garden.

Winer, G. B.

1847. *Biblisches Realwörterbuch*. 2 vols. Carl H. Reclam, Leipzig. (Feigenbaum, 1:366-67.) Biblical and historical references; account of fig, caprifig, and caprification; uses.

Winkelmann, J.

- (?) Werke herausgeben von Fernow, Meyer und Schulze. See: Bd. 2:620-21, 654. Cited by J. H. Dierbach (1833), pp. 112-14.

Wirsung, Christoph

1577. *Artznei-buch*. 630 pp. M. Harnisch, Franckfurt am Main. Auf ein neuwes in Druck übergeben durch Jacobum Theodorum. (Feigbaum, ciii recto, das erste Register.) According to J. Wilde, 1933, Wirsung stated that the fig tree was then common and well known in Germany.

1598. *Praxis medicinae universalis; or A general practice of Physicke*. 790 pp. Edmund Bollifant, London.

"Figs, dried figs, Ficus, figus passae, Carica, there are three kinds of them brought unto us, the first are they that come in frayles, and they are the meanest: the second kinde are the leafe Figs, that are brought fro Candy and Cypers, these are fatter and better than the former. They are called leafe figs, because they are packed and made up with Bay leaves betweene them. The third kind are lesser and pleasanter than the rest, they are brought from Provence, they are called figs of Marselles, and these are the best of all for Physick."

Zenker, Jonathan K.

- 1831-1835. *Merkantilische Waarenkunde--durch illuminirte Abbildungen Theils nach der Natur, theils nach den besten Originalien. Erlautert von Ernst Schenk*. 3 vols. Mauke, Jena. (Ficus carica, 1: Taf. 20 in color.) Cited by O. Stapf (1931) *Index Londinensis*, 3:187.

Zittel, Karl A.

- 1880-1893. *Handbuch der Palaeontologie. Abth.-Palaeophytologie* begonnen von W. Ph. Schimper....fortgesetzt und vollendet von H. Schenk. 5 vols. R. Oldenbourg, München. (Ficus carica, 2:481-83.)



Zorn, Johannes

- 1779-1784. *Icones plantarum medicinalium*. Centuria 1-5. Raspe, Nürnberg. (*Ficus carica*, 5: Taf. 479, in color.) Short description in German and Latin, parallel columns; poor color plate of leaves and reddish fruit.

# FRANCE

Acloque, Alexander

1894. *Flore de France*. 816 pp. J. B. Bailliere et Fils, Paris. (*Ficus carica*, p. 565. 1 figure.) Brief.

1904. *Flores régionales de la France*. Pages unnumbered. J. B. Bailliere, Paris. (*Ficus carica*, Sud-Ouest, No. 3234, région Méditerranéenne.) Subspontaneous among rocks and on the sea coast.

Adanson, Michel

1763. *Familles des plantes*. 2 vols. Vincent, Paris. (*Ficus carica*, I:116-21.) A good account of caprification, a necessary operation for some kinds of figs; other notes.

Andre, Ed.

1882. *Culture forcée des figuiers*. *Rev. Hort.* 54:271. Abstract from *Serres-Vergers*, by Ed. Pynaert.

Anonymous

- 1816-1830. *Dictionnaire des sciences naturelles*. 60 vols. Le Normant, Paris. (*Figuier*, 16:534-56.) General account; descriptions of varieties probably after Duhamel.
1831. The fig gardens at Argenteuil. *Gard. Mag.* [London] 7: 262, 263, 325.
1856. *Maison rustique du XIX Siècle*. *Libr. Agr. de la Maison Rustique*. 5 vols. First ed. 1835-1844. Vol. 5, *Encyclopédie d'horticulture*. (*Figuier*, p. 85.)
1866. *Figuier du château de Kennedy*. *Illus. Hort.* 13: tab. 476. (*Ficus carica kennedyensis* Hort., illus., in color.)
1879. An ancient fig tree (Brittany). *Amer. Agr.* 38:493. Account of the Roscoff fig tree.
1891. Le figuier de Roscoff. *Revue Hort.* 63:76. Trunk circumference, 2.40 m.

Ardoino, Honore

1867. *Flore analytique du département des Alpes-maritimes*. 468 pp. J. V. Ardoin, Menton. (*Ficus carica*, p. 340.) Brief.

Arnauld de la Nobleville, Louis D.

1774. Description abrégée des plantes usuelles. 562 pp. Debure, Paris. (Figuier, pp. 150-51.) Short; virtues, uses.

Auge de Lassus

1869. Trente-huitième, trente-neuvième, et quarantième centuries. Billotia 1:101-31. (Ficus carica, p. 126.)

Baillon, Henri E.

- 1876-1892. Dictionnaire de botanique. 4 vols. Libr. Hachette et Cie, Paris. (Figuier, 2:611. 3 figures.) Brief.

[Ballon]

1692. Nouvelle instruction facile pour la culture des figuiers. Avec un traité de la culture des fleurs. 164 pp. C. de Sercy, Paris. (Figuiers, pp. 1-111.) By Ballon and Garnier. General account; soil, propagation, culture, varieties, uses.

Baltet, Charles

1889. Les fruits populaires. 202 pp. Paul Dupont, Paris. (Figues, pp. 30-40.) Culture in general; varieties only mentioned.

1905. Figues de commerce, d'exportation et de Marché. Revue Hort. 77:446. Brief account.

Barral, Jean A.

- 1886-1892. Dictionnaire d'agriculture---continué sous la direction de Henry Sagnier. 4 vols. Libr. Hachette et Cie, Paris. (Figue, figuier, 2:921-25. Figures 639-41.) General; distribution, propagation, culture, winter protection, oleification, maladies.

Beille, L.

1909. Précis de botanique pharmaceutique. 2 vols. Maloine, Paris. (Ficus carica, 2:205. Figure 124.) Short; botany, caprification.

Beissner, Louis

1869. Vegetations Verhältnisse und Mitteilungen über die Gartenculturen von Hyeres. Gartenflora 18:36-53. (Feigen, p. 52.) Mention only; large fig trees.

Bellair, Georges

1904. Les arbres fruitiers. (12th ed.) 357 pp. J. B. Bailliere et Fils, Paris. (Figuier, pp. 318-27. Figures 168-71.) Short; history, two varieties described, culture, pests.

1925. Traité d'horticulture pratique. 1120 pp. Octave Doin, Paris. (Figuier, pp. 487-91.) General description, soil, climate, propagation, varieties, culture.

Bergeret, Eugene

1909. Flore des Basses-Pyrénées. Nouv. ed. par Gaston Bergeret.  
960 pp. Impr. Stereo, Garet, Pau. (Figuier, p. 745.) Short.

Bernard, Bon Joseph

- 1787-1788. Mémoires pour servir à l'histoire naturelle de la  
Provence. 2 vols. Didot, Paris. 1'Histoire naturelle du  
figuier 1:17-218. Good complete account. See also: Observ.  
Phys. 1'Hist. Nat. et Arts 29:45-53. 1 plate.

Blanchard, J.

1878. Le figuier de Roscoff. Jour. d'Agr. Prat. 1878:447. Sept.  
Extrait in: Revue Hort. 51:372.

Blin, Henri

1891. Culture spéciale du figuier à Argenteuil. Revue Hort. 63:  
466-69, 492-95. Figures 120-22. (See p. 314.)
1945. Les cultures fruitières du Puy-de-Dôme. Les fruits de  
confiserie. Revue Hort. 117:235-38. (Figuier, p. 237.)  
Cultivated in amateur gardens.

Bosc, Louis A. G.

1821. Encyclopédie méthodique. Agriculture. Tome septième.  
Dictionnaire de la culture des arbres et de l'emménagement  
des forêts. Par Bosc et Baudrillard. Veuve Agasse, Paris.  
(Figuier, pp. 456-64.)

Bois, Désiré G.

- 1893-1899. Dictionnaire d'horticulture. Paul Klincksieck, Ed.  
1228 pp. Libr. Sci. Naturelles, Paris. (Figuier, pp. 541-  
42.) Varieties, culture, oleification, caprification,  
forcing.
1919. Le petit jardin, manuel pratique d'horticulture. 476 pp.  
J. B. Baillière et Fils, Paris. (Figuier, pp. 365-66.)  
Brief.
1928. Les plantes alimentaires chez tous les peuples et à  
travers les âges. 2 vols. Paul Lechevalier, Paris. (Ficus  
carica, 2:469-85. Figures 227-30.) Varieties; handling the  
crop in Algeria.

Bois, D., and G. Gadeceau

1909. Les végétaux, leur rôle dans la vie quotidienne. 370 pp.  
P. Roger et Cie, Paris. (Figuier, pp. 81-83.) General;  
the fruit, crops, caprification, distribution.

## Bonnefons, Nicolas de

1669. The French gardener, instructing how to cultivate all sorts of fruit trees and herbs for the garden. Transl. by John Evelyn. 294 pp. John Croke, London. (Figs, pp. 84-86, 131.) Propagated by layers; pick green figs off before winter; varieties listed.

"Reader: If in this catalogue of fruits, I have either mistaken or omitted many of the true English names, it is because it was a subjection too insupportable; and besides the French gardeners themselves are not perfectly accorded concerning them; nor have our orchards, as yet, attained to so ample a choyce and universal, as to supply the deficiency of the Dictionary."

## Bory de Saint Vincent, J. B. G.

- 1822-1831. Dictionnaire classique d'histoire naturelle, par M. Audouin, Isid. Bourdon,---et Bory de Saint Vincent. Ouvrage dirigé par ce dernier collaborateur. 17 vols. Rey et Gravier, Paris. (Figuier, 6:498-503.) General; fig and caprifig, culture, description of 13 green or yellow figs and of 11 colored kinds, uses.

## Boullay

1845. Notice historique sur le figuier et sur la culture aux environs de Paris. Revue Hort. 6:290-96. At Argenteuil there are about 1221 fig trees or 50 hectares. Account of soil, propagation by marcottage, spacing, caprification (oiling). At La Frette near Argenteuil Figue Violette forms more than 3/4 of entire culture. Method of pruning.

## Bravy, M. G.

1847. Culture des arbres fruitiers. Fruits en baies--XI. Revue Hort. 1847:407-15. (Figuier, p. 409.) Brief account.

## Buisseret, Désiré

1880. Conférences sur la culture des arbres fruitiers. Cinquième ed. 340 pp. l'Auteur, Louvain. (Le figuier, p. 233.) Short general account.

## Bussard, Léon, and G. Duval

- 1943-1944. Arboriculture fruitière. 522 pp. J. B. Bailliere et Fils, Paris. (Figuier, pp. 490-98. Figures 223-25.) General account by Duval.

## C., C.

1903. Riviera nature notes. (2d ed.) 402 pp. B. Quaritch, London. (Fig, pp. 46-51.) Historical; wild figs in St. Andre gorge.

Caillot, J.

1896. Historique de la vigne et du figuier. 23 pp. Robert and Co., Argenteuil. Reference in: Exp. Sta. Rec. 8:55.

Candolle, Alphonse L. de

1855. Géographie botanique. 2 vols. 1366 pp. Victor Masson, Paris. (Figuier, 1:21, 619, 918, 982.) General; history; seeds distributed by man and birds; plants spontaneous.

Capus, Guillaume, and D. Bois

1912. Les produits coloniaux; origine, production, commerce. 687 pp. Libr. Armand Colin, Paris. (Le figuier, pp. 150-52. Figures 53-55.) 1930 ed. Libr. Larousse, Paris. 493 pp. (Figuier, pp. 111-12.) Short; general.

Carbou, J. B.

1865. Le figuier dans le Midi. Revue Hort. 36:335-36. Short general account. See also p. 334.

Carriere, E. A.

1879. Le figuier de Roscoff. Revue Hort. 51:372-76. Figure 79. Good detailed account; letter from M. Deschamps, the proprietor; history.

Chancrin, E., and R. Dumont

1921. Larousse agricole. Encyclopédie illustrée. 2 vols. Libr. Larousse, Paris. (Figuier, 1:657-58. Figures 2112-16.)

Chasset, Louis

1938. Manuel d'arboriculture fruitière. 247 pp. Reveil du Beaujolais, Villefranche. (Figuier, pp. 120-23. Figures 138-39.) General, culture, winter protection.

Chaumeton, Francois P., Chamberet, and I. L. M. Poirat

- 1814-1820. Flore médicale, peinte par Madame E. Panckoucke et par P. J. T. Turpin. 8 vols. Panckoucke, Paris. (Ficus carica 3:229-32. Figure 166 in color.) Description of tree, fruit, flowers, properties, uses; green leaves and fruit illustrated.

Chevalier, Auguste, and Jean F. Leroy

1946. Les fruits coloniaux. 126 pp. Univ. de France, Paris. (Figuier, pp. 27, 33-40.) Varieties mentioned, culture, propagation, harvesting, drying, enemies, food value.

Chomel, M. Noel, and J. Marret

1741. Dictionnaire économique, contenant divers moyens d'augmenter son bien, et de conserver sa santé. 2 vols. H. Thomas & Co., Commerc. (Figuier, 1:305-311.) Detailed account of culture, marcottage, planting, growing in pots or boxes, on espalier, pruning, pests, properties, and uses.



Chomel, Pierre J. B.

1782. Abrégé de l'histoire des plantes usuelles. 650 pp. Paris. (Figuier, p. 92.) 1804 ed. 2 vols. L. Duprat-Duverger, Paris. (Figuier, 1:180-82.) Mostly deals with uses and medicinal properties.

Conte, E.

1946. Les plantes qui guérissent. 219 pp. Ed. de Montsouris, Paris. (Figuier, p. 87.) Short, general.

Conner, E.

1897. The Parisian fig culture. Gard. Chron. 22:153.

Correvon, Henry

1906. Nos arbres. 305 pp. Libr. Horticole, Paris. (Figuier, p. 284.) Short; botany, distribution, history.

Coste, H.

- 1901-1906. Flore descriptive et illustrée de la France. 3 vols. P. Klincksieck, Paris. (Figuier, 3:252.)

Cotte, J., and A. Reynier

1923. Observations sur les figuiers de Provence. Aix-Marseilles Univ. d'Annal. Faculté Sci. 2 (ser. II):30-65. Illus. Life history of blastophaga, origin of domestic figs.

Couverchel, Jean F.

1839. Traité des fruits, tant indigènes qu'exotiques, ou dictionnaire carpologique. 717 pp. Bouchard-Huzard, Paris. (Figue, pp. 210-18.) General account; classification and description of 36 varieties.

Crouan, P. L., and H. M. Crouan

1867. Florule du Finistère. 262 pp. P. Klincksieck, Paris. (Figuier, p. 210.) Brief.

Cuny, L.

1946. Cours d'arboriculture fruitière, (4th ed.) 241 pp. (Mimeogr.) Bur. de l'Édition, Paris. (Figuier, pp. 166-70, 240. Illus.) Propagation, culture, winter protection, varieties briefly described.

Cusin, and Ansberque

1867. Herbar de la flore française. Publié sous le patronage du service du parc et des jardins de la ville de Lyon. Folio. 6 pp. 191 tab. Lyon. (Ficus carica.) Cited by Stapf, 1931; Pritzel, 1872.

## Damiani, Simon

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. United States Spec. Cons. Rept., Govt. Printing Office, Washington, D.C. (Corsica, pp. 753-55.) Also in: California State Bd. Hort. Rept. 1890:368.

## Davin, V.

1921. /Figs of the Mediterranean basin./ Petit Marseillaise, Marseilles, Dec. 12. Short account of varieties and of important areas.

## Decaisne, Joseph, and Charles Naudin

- 1862-1866. Manuel de l'amateur des jardins. Traité général d'horticulture, figures dessinées par A. Riocreux. 3 vols. F. Didot Frères, Paris. (Ficus carica, 3:362.) Short.

## Delaville, A.

1872. Cours pratique d'arboriculture fruitière pour la région du Nord de la France. 396 pp. l'Auteur, Beauvais. (Figuier, pp. 348-55. Figures 223-26.) Culture, winter protection.

## Delbard, Georges.

1947. Les beaux fruits de France. 166 pp. G. Delbard, Paris. (Figuier, p. 70. One color plate.) General account; propagation, mode of vegetation and fruiting; short description of 12 varieties; Barbillone, Dauphine Violette, Grosse Rouge de Bordeaux, and Figue d'Or, illustrated in color.

## Delplace, E.

1933. Manuel d'arboriculture fruitière. 450 pp. J. Lamarre, Paris. (Figuier, pp. 168, 187, 387-91. Figures 415-16.) Insect pests, propagation, culture; four varieties described. (4th ed.) 1944. 510 pp. (Figuier, pp. 440-45.)

## Deniker, J.

1886. Atlas manuel de botanique. 400 pp. J. B. Bailliere, Paris. (Figuier, p. 254. Pl. 127, figures 1-9.) Short; figures of leaves, fruit, flowers.

## Desfontaines, René L.

1809. Histoire des arbres et arbrisseaux qui peuvent être cultivés en pleine terre sur le sol de la France. 2 vols. J. A. Brosson, Paris. (Figuier, 2:409-15.) General.

## Des Michels, M.

1852. Essai sur la statistique horticole de la Provence. Inst. Hort. de Fromont Ann. 4:44-69. (Figuier, p. 55.) Brief. Mentions the varieties Marseillaise, Mouissonne, Bourjassotte.

## Dodoens, Rembert

1578. *A nieuwe herball; or Historie of plantes*; transl. out of French into English, by Henry Lyte. 779 pp. G. Dewes, London. (Fig, pp. 717-19.) 1586 ed., N. Newton, London. 916 pp. (Fig, pp. 835-39.) Short general account; the names, nature, virtues detailed in many ways and by various ancient authors.

## Du Breuil, Alphonse

1846. *Cours élémentaire théorétique et pratique d'arboriculture*. 613 pp. Masson, Paris. (Figuier, pp. 359, 547-52.)
1876. *Culture des arbres et arbrisseaux, à fruits de table*. 693 pp. G. Masson, Paris. (Figuier, pp. 602-29. Figures 488-510.) Good account; history, mode of growth and fruiting, varieties, propagation, culture, winter protection, pests, handling the crop.

## Dubuisson, J.

1809. *Plantes usuelles indigènes et exotiques décrites ou indiquées par Chomel*. 2 vols. L. Duprat-Duverger, Paris. (Figuier, 1:178. Pl. 14.) Small figure of leaves and fruit.

## Dubuquoy, Marcel

1938. *Horticulture moderne*. 346 pp. J. Duculot, Gembloux. (Figuier, p. 104.) Brief.

## Duchesne, Edouard A.

1836. *Répertoire des plantes utiles et des plantes vénéneuses du globe*. 572 pp. Jules Renouard, Paris. (*Ficus carica*, p. 315.) Nouvelle ed. corrigée et augmentée. 505 pp. Bruxelles. 1846. (*F. carica*, figure 119.) Short; four varieties listed; medicinal properties.

## Du Hamel du Monceau, Henri L.

1755. *Traité des arbres et arbustes qui se cultivent en France en pleine terre*. 2 vols. Guérin et Delatour, Paris. (Figuier, 1:235-44. Pl. 99.) See also: (2d ed.) Paris, 1809. 7 vols. (Figuier, 4:197-232. Pls. 53-59 in color.) Descriptions of 36 varieties; good account.
1768. *Traité des arbres fruitiers; contenant leur figue, leur description, leur culture*. 2 vols. Saillant, Paris. (Figuier, 1:207-17, 2 pls.) General; propagation, culture, uses; description of three varieties, Blanche, Angélique, Violette; illustration of first and third in black.

- Dujardin-Beaumetz, George, and Ed. Egasse  
 1889. Les plantes médicinales indigènes et exotiques. 845 pp. Octave Doin, Paris. (*Ficus carica*, pp. 287-88. Figures 381-84.) Botany, caprification, composition, uses.
- Dumont-Courset, G. L. M.  
 1802-1805. Le botaniste cultivateur. 5 vols. in 4. J. J. Fuchs, Paris. (Figuier, 3:674-77.) Ed. 2. 1811. 6 vols. Deterville, Paris. (Figuier, 6:352-55.) Short account; three varieties described, Figue Blanche, Angélique, and Violette; culture, uses.
- Durand, E.  
 1912. Manuel pratique de culture fruitière. 575 pp. Charles Amat, Paris. (Figuier, Chap. 20, pp. 483-86. Figure 311.) Cultural area, characters, culture, harvesting.
- Edwards, George W.  
 1924. Paris. 435 pp. Penn. Publ. Co., Philadelphia. (Fig, p. 140.) The Rue Figuier-St. Paul is so called from the great and famous fig tree which was long its pride.
- Estienne, C.  
 1537. Seminarium sive plantarium earum arborum. 139 pp. H. S. Vincentii, Lugduni. (Figuier, pp. 83-85.) Latin text; short historical notes of fig and caprifig.
- Estienne, C., and J. Liebault  
 1600. Maison rustique, or The countrie farme, Compiled in the French tongue by Charles Stevens and John Liebault and transl. into English by Richard Surfleet. 901 pp. Edm. Bollifant, London. (Fig, pp. 369-71, 433, 462, 482-84.) Mixture of ancient legends; notes on culture, varieties, medicinal properties, "The fig tree will not loose his fruit if the stocke be rubd ouer with mulberries."
- Evreinoff, V. A.  
 1947. Les arbrisseaux à fruits. 133 pp. Flammarion, Paris. (Figuier, pp. 11-64. Figures 1-39.) Origin, characters of plant, propagation, culture, varieties, caprification, handling fresh and dried, uses, products, pests.
- Fayard, de la Brugère, Jean A.  
 — (?) L'école du jardinier amateur, fleuriste et potager. 604 pp. A. Fayard, Paris. (Figuier, pp. 226-29.)
- Forney, Eugène  
 1863. Le jardinier fruitier. 2 vols. Arnheiter, Paris. (Figuier, 2:270-80. Illus.) Short, general on origin, soil, propagation; method of growth, details of pruning of young and bearing trees; choice of best varieties, includes Blanche Ronde and Longue, Angélique, Madeleine, Violette, and Violette de Bordeaux.

1889. La taille des arbres fruitiers. 2 vols. Libr. Agricole, Paris. (Figuier, 2:311-22.) Practically same material as in edition of 1863; four varieties only described, including Dauphine Violette.

Foussat, J.

1894. Arboriculture fruitière, culture des arbres fruitiers dans les jardins. 214 pp. Libr. Hachette et Cie, Paris. (Figuier, pp. 187-93.) Origin, history, method of growth, varieties listed, propagation, culture, oleification.

Gareis, Karl

1895. Die Landgüterordnung Kaiser Karls des Grossen. (Capitulare de villis vel curtis imperii.) 68 pp. J. Guttentag, Berlin. (Ficus carica, p. 66.) Listed only; France, laws and statutes to 987 A.D.

Garidel, Pierre J.

1715. Histoire des plantes qui naissent aux environs d'Aix et dans plusieurs autres endroits de la Provence. 522 pp. Joseph David, Aix. (Figuier, pp. 174-79.) Review of literature on medicinal properties; variety descriptions.

Gayffier, Eugène de

- 1868-1873. Herbar forestier de la France. 2 vols. J. Rothschild, Paris. (Ficus carica, 2, one plate, 2 unnumbered pages.) Short, botany, culture, uses.

Gentil, François

1723. Le jardinier solitaire. Culture des arbres. 440 pp. Rigaud, Paris. (Chap. XI. Traité des figuiers, et de les cultiver, pp. 303-22.)

Gillet, C. C., and J. H. Magne

1862. Nouvelle flore française. 620 pp. Garnier Frères, Paris. (Ficus carica, p. 355.) Brief.

Goutan, Antoine

1765. Flora Monspeliaca. 543 pp. Duplain, Lugduni. (Figuier, p. 435.) Brief; botany, uses.

Grec, Jules

1895. Figue. Figuier. In: Dictionnaire populaire agriculture pratique. 2 vols. Commence par Gaston Percheron and Paul Du Breuil. Libr. de la France Agricole, Paris. (See: 1:736-37.)

Grenier, Charles

1900. La culture du figuier. Soc. Pomol. de France 1900:160-62. (Extrait du Bul. Soc. Centr. Hort. Seine-Inférieure.) General account.



Grenier, Charles, and D. A. Godron

- 1848-1856. Flore de France. 3 vols. J. B. Bailliere, Paris.  
(Ficus carica, 3:103.) Brief; botany; cultivated and spontaneous.

Gueidan, E.

- 194\_. Le jardinier Provençal. (9th ed.) 326 pp. Tacussel, Marseilles. (Figuier, pp. 193-94.) Short, general.

Guibourt, N. J. B. G.

1876. Histoire naturelle des drogues simples. (7th ed.) par G. Planchon. 3 vols. J. B. Bailliere et Fils, Paris.  
(Figuier, 2:317-19. Figure 449.) Botany, distribution, kinds, caprification.

Guillaumin, A.

1923. Plantes économiques et officinales. 195 pp. Mus. d'Hist. Naturelle, Paris. (Figuier, p. 61.) Brief.

Hazan, Nessim W.

1934. France as a market for California fruits and a competitor in fruit production. 327 pp. Ph.D. thesis, Univ. of California, Berkeley. (Typed.)

Herincq, F.

1850. Figue grosse superfine de la Saussaye. Revue Hort. 1850: 421-24. Figure 22, in color.

Hubert, Paul

1912. Fruits des pays chauds. 2 vols. H. Dunod et E. Pinat, Paris. (Figuier, 1:243-60. Figures 100-5.) History, geography, culture, caprification, pests, handling fresh and dried figs.

Jacques, Antoine, and F. Herincq

- 1845-1857. Manuel général des plantes, arbres et arbustes. 4 vols. Libr. Agricole de la Maison Rustique, Paris.  
(Figuier, 4:155-61.) General, botany; Latin nomenclature of Gasparrini; short descriptions of 35 varieties; culture and uses.

Jamin, M. Ferdinand

1885. Les fruits à cultiver. (2d ed.) 191 pp. G. Masson, Paris. (Figues, pp. 175-77.) Short, general; culture, winter protection.

Juignet, Edmond

1909. Culture du figuier à Argenteuil et dans le nord de la France. 24 pp. Illus. l'Auteur, Argenteuil. Origin, culture, varieties, pests, uses.

Jussieu, Antoine L. de

1789. *Genera plantarum*. 498 pp. V. Herissant, Paris. (Figuier, pp. 400-1.) Latin text; description of fruit and of capri-fication.

La Brousse, de

1774. *Traité de la culture du figuier, suivi d'observations et d'expériences sur la meilleure manière de cultiver, sur les causes de son dépérissement, & sur les moyens d'y remédier*. 83 pp. Valade, Amsterdam. See also: *Traité sur le figuier*. 53 pp. In: *Mélanges d'agriculture*, II, part 1. 1789. General; description of varieties mostly after Tournefort and Garidel.

LaMarck, Jean B., and J. L. M. Poiret

- 1783-1817. *Encyclopédie méthodique. Botanique*. 13 vols. Panckoucke, Paris. (Figuier, 2:489-92; *Ficus*, pp. 492-500.) General characters; descriptions of 20 varieties, more in detail than in *Flore Française*; after Tournefort, Garidel, and Duhamel.

LaMarck, Jean B., and A. P. de Candolle

1806. *Synopsis plantarum in flora Gallica descriptarum*. 432 pp. H. Agasse, Paris. (*Ficus carica*, p. 183.) Very brief note, flowers and location.

1815. *Flore française*. 5 vols. Desray, Paris. (Figuier, 3:318-20.) Brief general account; short descriptions of nine white, green or yellow, and of twelve colored or violet figs.

Lambertye, Léonce.

1874. *Le figuier de Roscoff*. *Revue Hort.* 1874:437-38.

Lanessan, J. L. de

1885. *Manuel d'histoire naturelle médicale*. 2 vols. Octave Doin, Paris. (*Ficus carica*, 1:1024-25. 2 figures.) A general account.

La Quintinie, Jean de

1692. *Instructions pour les jardins fruitiers et potagers*. 344 pp. (2d ed.) Henri Desbordes, Amsterdam. (*Traite des figues*, pp. 214-15.) Short account of culture and varieties.
1693. *The compleat gard'ner*. 2 vols. in 1. Made English by John Evelyn. Pr. for Matthew Gillyflower at the Spread Eagle in Westminster Hall. (Figs, 1:136-37; 2:57-66, 92-93.) Also: 3d ed. corrected by George London and Henry Wise, London. 1701.

Le Berryais, Louis René

1789. Traité de jardins, ou le nouveau de la Quintinye. Première partie; Jardin Fruitier. Belin, Paris. 410 pp. (Figuier, pp. 265-73.) Variety descriptions, culture, winter protection.

Leclerc, Henri

1925. Les fruits de France. Historique, diététique, et thérapeutique. 274 pp. Masson et Cie, Paris. (La figue, pp. 205-13.) (2d ed.) 1947. 376 pp. A. Legrand et Cie, Paris. (Figue, pp. 230-39.) History, distribution, varieties, properties, food value, uses.

Le Maout, Emmanuel

1852. Botanique, organographique et taxonomie. 387 pp. L. Curmer, Paris. (Figuier, p. 355.) Brief account.

Lherault, Louis

1872. Culture du figuier blanc d'Argenteuil. 24 pp. Paul Bousrez, Tours. Four varieties described; propagation, culture, terminal bud pruning.

Liger, Louis

1702. Traité facile pour apprendre à élever des figuiers. 81 pp. D. Beugnie, Paris. In: La culture parfaite des jardins fruitiers et potagers. (Appendix.) General account in eleven chapters.

Liron d'Airoles, Jules

- 1857-1858. Notice pomologique. 2 vols. Gueraud et Cie, Nantes. (Figuier, 2:315-18.) Short, general.

Lloyd, James

1854. Flore de l'ouest de la France. 574 pp. Bailliere et Fils, Paris. Cited by Bradley Bibliography 1:411.

Loret, H., and A. Barrandon

1876. Flore de Montpellier comprenant l'analyse descriptive des plantes vasculaires de l'Herault. 2 vols. Adrien Delahaye, Paris. (Ficus carica, 2:586.) Brief.

Loiseleur-Deslongchamps, J. L. A.

1819. Manuel des plantes usuelles indigènes ou histoire abrégée des plantes de France. 2 parts. Mequignon, Paris. (Figuier, 1:499-501.) Short description of the plant, uses fresh and dried.

Louis, A.

1947. Pour faire produire au maximum les arbres fruitiers. 199 pp. Dunod, Paris. (Figuier, p. 149.) Short, general.

## Marret, Léon

1926. Les fleurs de la Côte d'Azur. (De Toulon à Menton.) 428 pp. Paul Lechevalier, Paris. (Figuier, pp. 120, 351-53.) Short, general; caprification, drying.

## Martin, J. S.

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. United States Spec. Cons. Reports. Govt. Pr. Office, Washington, D.C. (Southern France, p. 755.) Also in: California State Bd. Hort. Rept. 1890:369.

## Martin, T. H.

1866. La foudre, l'électricité et le magnétisme chez les anciens. 418 pp. Didier et Cie, Paris. (Le figuier, p. 194.) Fig included in list of plants respected by lightning, i.e., not commonly struck.

## Martinet, H., and F. Lesourd

- 1924-1925. Une visite au figuier de Roscoff. Revue Hort. 96-97: 229. Short account of this famous tree.

## Mathieu, A.

1897. Flore forestière. 705 pp. J. B. Bailliere et Fils, Paris. (Figuier, p. 288.) Ed. of 1860. 455 pp. M<sup>me</sup>. Bouchard-Huzard, Paris. (Figuier, p. 198.) Weight of fig wood 34 to 35 pounds per cubic foot.

## Mazieres, E. de

1920. Le figuier, l'abricotier, le prunier, et l'industrie des fruits séchés. 90 pp. J. B. Bailliere et Fils, Paris. (Le figuier, pp. 5-54. Figures 1-21.) Origin, geography, propagation, culture, varieties, caprification, handling the crop, products, pests.

## Merlet, Jean

1740. L'Abrégé des bons fruits, avec la manière de les connaître, et de cultiver les arbres. (4th ed.) 171 pp. Prudhomme, Paris. (Figuiers, Chap. 8, pp. 53-60.) (First ed. 1667.) Culture; descriptions of 18 varieties.

## Mirbel, C. F. B.

- 1802-1806. Histoire naturelle, générale et particulière des plantes. 18 vols. F. Dufart, Paris. (Le figuier commun, 10:66-72. Pl. 44.) General account; caprification, description of varieties, references to ancient authors.

## Moquin-Tandon, A.

1861. Eléments de botanique médicale. 543 pp. J. B. Bailliere et Fils, Paris. (Fig, pp. 274-75.) Description of plant and fruit; properties and uses.

Mouillefert, Pierre

- 1892-1898. Traité des arbres et arbrisseaux forestiers. 2 vols. Atlas 195 pls. Paul Klincksieck, Paris. (Figuier, 2:1221-26. Pls. 129, 130.) General account of fig and its varieties; several species described.

Nanot, J., and R. Vuigner

1913. Culture forcée des arbres fruitiers. In: Le bon jardinier. Encyclopédie horticole. Libr. Agricole, Paris. Sous la direction de D. Bois et G. T. Grignon. (Figuier, p. 374.) Short, general.

Maudin, Charles, and Ferd. von Mueller

1887. Manuel de l'acclimateur ou choix de plantes recommandées pour l'agriculture, l'industrie et la médecine. 565 pp. Libr. Agricole, Paris. (Ficus carica, pp. 284-85.) Culture at Argenteuil and elsewhere; short, general.

Noisette, Louis

1821. Le jardin fruitier. 95 + 176 pp. Audot, Paris. (Figuier, pp. 35-41. Pls. 10, 11, in color of Figue Blanche and Figue de Bordeaux.) Botany, history, culture, uses; four varieties described.

1829. Manuel complet du jardinier. 604 pp. Aug. Wahlen et H. Tarlier, Bruxelles. (Figuier, pp. 453-57.) General account; descriptions of several varieties.

Nomblot, Alfred

1913. Culture et description des espèces et variétés d'arbres fruitiers. In: Le bon jardinier. Encyclopédie horticole. Libr. Agricole, Paris. Sous la direction de D. Bois et G. T. Grignon. (Figuier, pp. 298-300.) Descriptions of 8 varieties.

Noter, Raphael

1923. Légumes et fruits des cinq parties du monde. 2 vols. Gauthier-Villars et Cie, Paris. (Ficus carica, 2:66-67.) Brief.

Fassy, Pierre

1918. Arboriculture fruitière. IV. 90 pp. J. B. Bailliere et Fils, Paris. (Le figuier, pp. 55-66. Figures 16-20.) 1910 ed. (Le figuier, pp. 53-64.) Also in: Traité d'arboriculture fruitière. 1897. 3 vols. in 1. (Figuier, 3:201-12.) Vegetative and botanical characters, soil, climate, culture, varieties, pests.
1920. Figue. Figuier. In: Omnium agricole, publié sous la direction de M. Henry Sagnier. 794 pp. Libr. Hachette, Paris. See pp. 371-72. 2 figures.



Paulin, F.

1903. [Influence of electricity on vegetation.] Sta. Agron. Oise (France) Ann. 35:35-40. Abstracted in: Exp. Sta. Record 15:361.) Figs matured perfectly out of doors.

Perrot, Em.

- 1943-1944. Matières premières usuelles du règne végétal. 2 vols. Masson et Cie, Paris. (Figuier, 1:732-36. Pl. 31, figures 12-17.) General account of caprifig and caprification, the domestic fig, culture, uses.

Perrot, Em., and H. Frouin

1906. Les matières premières usuelles. 44 pp. Vigot Frères, Paris. (Figues, p. 20.) Brief.

Pirolle, M.

1855. Manuel théorique et pratique du jardinier. Nouv. ed. revue et augmentée par MM. Boitard et Noisette. 672 pp. Delarue, Paris. (Figuier, pp. 250-51.) Short; varieties, propagation, culture.

Pizetta, Jules

1890. Dictionnaire populaire illustré d'histoire naturelle. 1164 pp. A. Hennuyer, Paris. (Figue, pp. 380-81.) Short, general.

Planchon, Gustave

1864. Étude des tufs de Montpellier au point de vue géologique et paléontologique. 73 pp. F. Savy, Paris. (Figuier, pp. 44, 63. Tab. 3, figure 1.) Fossil figs.

Poher, Ernest

1912. Le commerce des produits agricoles. 498 pp. J. B. Baillière et Fils, Paris. (Figue, p. 397.) Figues fraîches de plus en plus demandées, Sollies-Pont, etc.

Poiteau, Antoine

1830. Mères de figuier. Inst. Roy. Hort. de Fromont Ann. 2: 269, 270.
- 1838-1846. Pomologie française. 4 vols. Langlois et Leclercq, Paris. (Ficus carica, 4, Sect. 9.) Figue Blanche Ronde figured and described.
- 1848-1853. Cours d'horticulture. 2 vols. Mme. V. Bouchard-Huzard, Paris. (Figuier (Ficus), 2:388-92.) General; history, caprification, culture, varieties; good references to literature.

Poiteau, A., and A. Vilmorin

1842. Le bon jardinier, Almanach pour l'année 1842. 1413 pp. Audot, Paris. (Figuier, pp. 517-20.)

Redoute, Pierre J.

1827. Choix des plus belles fleurs prises dans différentes familles du règne végétal et de quelques branches des plus beaux fruits. Folio, 17 pp. 144 tab. in color. Paris. (Ficus carica violacea Hort. Tab. 37.)

Regnault, François

1774. La botanique mise à la portée de tout le monde, ou collection des plantes d'usage dans la médecine, dans les aliments et dans les arts. 3 vols. 1'Auteur, Paris. (Ficus carica, 3:139. Pl. in color.) Cited by O. Stapf (1931), Index Londinensis 3:187.

Renaud, Joseph L.

1845. Relation des voyages. 2 vols. 1'Imprim. Royal, Paris. (Figuier, 1:22.) According to B. Laufer, the fig belonged to China A.D. 851.

Revol, J.

1910. Catalogue des plantes vasculaires du département de l'Ardèche. 316 pp. Paul Klincksieck, Paris. (Ficus carica, p. 251.) Cultivated and spontaneous up to 300 meters elevation.

Risso, Antoine

1844. Flore de Nice, et des principales plantes exotiques naturalisées dans ses environs. 588 pp. Soc. Typogr., Nice. (Ficus carica, pp. 434-35.) Short; F. caprificus, F. silvestris, and F. carica commun; varieties listed only, with Latin terminology.

Riviere, Auguste, and Gustav Riviere

1928. Traité d'arboriculture fruitière, considérablement augmenté et publié par Gustave Riviere. 621 pp. Reveil du Beaujolais, Villefranche. (Figuier, pp. 532-41.) History in France, description of the plant, culture especially terminal bud pruning, varieties for Paris climate, oleification, pests.

Riondet, A.

1892. L'Agriculture de la France méridionale. 384 pp. Libr. Agric. de la Maison Rustique, Paris. (Figuier, pp. 223-27.) History, notes on varieties, first and second crops.

Robinson, William

1869. Gleanings from French gardens. 291 pp. (2d ed.) Frederick Warne, London. (Fig culture and protection, pp. 204-207. Figures 62-67.)

1869. The parks, promenades and gardens of Paris. 644 pp. John Murray, London. (Fig culture in the neighbourhood of Paris, pp. 395-405. Figures 211-21.) Details of culture from Du Breuil.
1883. The parks, and gardens of Paris. (3d ed.) 548 pp. John Murray, London. (Fig culture, p. 369-78. Illus.) See also: Florist and Pomol. (3d ser.) 2:210-14. 1869. Good account of fig culture at Argenteuil near Paris.

Rolet, Antonin

1903. Los higos secos. Le Petit Jour. Agr., Nov. 22. Cited by A. Rolet 1919, p. 383.
1916. Le figuier en Provence. Vie Agr. et Rurale 6(10):170-72. 2 figures. Good account; handling fresh and dried; varieties; packages.
1920. Les conserves de fruits. 458 pp. J. B. Bailliere, Paris. (Figues, pp. 265-78.) Las conservas de frutas, 479 pp. P. Salvat, Barcelona. Spanish ed. (Higos, pp. 383-95.) General account of varieties, harvesting, drying in sun and evaporator, packing, pests, fig coffee (quoting Trabut in detail).

Rolland, Eugène

- 1900-1914. Flore populaire, ou Histoire naturelle des plantes dans leurs rapports avec la linguistique et le folklore. 11 vols. Libr. Commissionnaires, Paris. (Ficus carica, 10:61-78.) Long list of quotations from various authors; varieties listed with synonyms and authorities; legends.

Rouy, G.

- 1893-1913. Flore de France. 14 vols. in 7. Les Fils d'Émile Deyrolle, Paris. (Ficus carica, 12:268.) Naturalized or subsponaneous in many places; short botanical description.

Roques, Joseph

1837. Nouveau traité des plantes usuelles. 4 vols. F. Dufart, Paris. (Ficus carica, 3:421-26.) General; history, distribution, uses.

Rozier, François

- 1781-1805. Cours complet ou dictionnaire d'agriculture. 12 vols. A. Lucques, Paris. (Figuier, 8:418-45.) Good variety descriptions.

## Sauvaigo, Émile

1889. Note sur les figuiers introduits et cultivés dans les environs de Nice. Soc. Centr. d'Agr., d'Hort. et d'Acclim. des Alpes-Maritimes Bul. Mens. 29:144-67. Variety descriptions.
1894. Les cultures sur le littoral de la Méditerranée. 318 pp. J. B. Baillière et Fils, Paris. (Figuier, pp. 225-30. Figure 96.) General account with descriptions of 7 white or yellow figs, 5 gray or reddish, and 5 black or brown.
1899. Énumération des plantes cultivées dans les jardins de la Provence et de la Ligurie avec un tableau des collections botaniques les plus importantes de Marseilles à Gênes. 414 pp. Ventre et Cie, Nice. (Figuier, pp. 172-81.) General account; good descriptions of varieties.

## Schabol, Jean R.

1770. La pratique du jardinage. Ouvrage redigé apres sa mort sur ses mémoires, par. M. D. 2 parts. Debure, Paris. (Figuier, 1:303-4.) Neuf ed. 1797. 2 vols. Robert et Gauthier, Lyons. Short; culture on walls, disbudding.

## Schneider, Numa

1902. Plantation du figuier. Revue Hort. 74:143-45. The soil and its preparation, drainage, fertilizer, planting, choice of varieties.
1902. Culture du figuier dans le nord de la France. Revue Hort. 74:209. Short; list of five preferred varieties.
1904. Préparation des figuiers pour la culture forcée. Revue Hort. 76:443-44. Propagation, preparing the soil, spacing, planting, culture.
1904. Culture forcée des figuiers en pots. Revue Hort. 76:571-73. Details of culture; insect pests and remedies; choice of varieties.
1905. Traitement des figuiers au printemps. Revue Hort. 77:139-41. Uncovering winter protected trees; culture, pruning.
1905. Traitement d'automne du figuier. Revue Hort. 77:399-401. Culture; insect pests and remedies.

## Seltensperger, Ch.

1911. Dictionnaire d'agriculture et de viticulture. 1064 pp. J. B. Baillière et Fils, Paris. (Figuier, p. 388. 2 figures.) Short; botany, culture, pests.

## Serres, Olivier de

1600. Le théâtre d'agriculture et mesnage de champs. Folio.  
Paris. 1004 pp. 1629 ed. 878 pp. Nouvelle ed. 1804-1805.  
2 vols. Mme. Huzard, Paris. (Figue, 2:393-96, 512.)  
Historical account; varieties mentioned only; culture,  
handling the crop.

## Smith, W. G.

1889. Gigantic fig tree at Roscoff, France. Gard. Chron. 6 (3d  
ser.):468. Illus.

## Spach, Edouard

- 1834-1848. Histoire naturelle des végétaux. 14 vols. Libr.  
Encycl. de Roret, Paris. (Figuier commun, 11:54-58.)  
General account of the plant, the caprifig, culture, and  
uses.

## Thompson, Robert

1847. Report on the fruit and kitchen gardens near Paris, from  
observations made during a visit in the spring of 1847.  
London Hort. Soc. Jour. 2:195-242. (Fig, p. 216.)

## Toussaint, L'Abbé

1912. Europe et Amérique (Nordest). Flores comparées. 650 pp.  
Hermann et Fils, Paris. (Ficus carica, p. 465.) Cultivated  
and naturalised in Europe meridionale and cultivated in  
America.

## Tournefort, Joseph P. de

1694. Elements de botanique, ou méthode pour connaître les  
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3:pl. 420, figures A to G.) Brief botanical account.

## Trail, C. B.

1897. Fruit culture in foreign countries. Part 3. The fig, pp.  
729-69. United States Spec. Cons. Reports, Govt. Pr.  
Office, Washington, D.C. (France, pp. 750-53.) Also in:  
California State Bd. Hort. Rept. 1890:365-68.

## Troncet, L. J., and E. Deliege

1896. Arboriculture pratique. 163 pp. Libr. Larousse, Paris.  
(Figuier, pp. 133-36. Figure 180.) General; propagation,  
varieties listed, culture.

## Truffaut, Georges

1946. Comment on soigne son jardin. (10<sup>e</sup> ed.) 512 pp. Geo.  
Truffaut, Versailles. (Figuier, pp. 149, 200, 214.)  
Short, general; caprification (oiling eye of fig),  
winter protection.



Valmont de Bomare

1776. Dictionnaire raisonné universel d'histoire naturelle.  
5 vols. (3d ed.) Jean M. Bruyset, Lyon. (Figuier, 3:476-83.)  
A general compiled account.

Vercier, Henri J.

1946. Arboriculture fruitière. 408 pp. Libr. Hachette, Paris.  
(Figuier, pp. 164-73. Figures 158-68.) General; culture,  
propagation, mode of fruiting, pests, varieties.

Vesque, Julien

1885. Traité de botanique agricole et industrielle. 976 pp.  
J. B. Baillière et Fils, Paris. (Ficus carica, pp. 266-69.  
Figures 155, 156.) General account.

Willemet, Rémi

1608. Phytographie encyclopédique, ou Flore économique. 3 vols.  
Brunot-Labbe, Paris. (Figuier, 3:1229.) Brief, general.

Wilson, Thomas

1897. Fruit culture in the Alpes Maritimes. United States Spec.  
Cons. Repts. Fruit Culture in foreign countries. Vol. I:  
922-34. (Figs, p. 933.)

Ysabeau, A.

1858. Leçons élémentaires d'horticulture. 179 pp. Jules  
Delalain, Paris. (Figuier, pp. 137-38.) Short; culture  
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#### SPAIN AND PORTUGAL

Abd Allah ibn Ahmad, called Ibn al-Baitar [1197?-1248?]

- 1840-1842. Grosse Zusammenstellung über die Kräfte der bekannten  
einfachen Heil- und Nahrungsmittel von Abu Mohammed  
Abdallah Ben Ahmed aus Malaga, bekannt unter dem Namen  
Ebn Baithar. Aus dem Arabischen Übersetzt von Dr. Joseph  
v. Sontheimer. 2 vols. Hallberger, Stuttgart. Same; Traité  
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Biblio. Nationale et autres Bibliothèques. Vol. 25. 489 pp.  
Imprim. Nationale, Paris. (Figue, p. 316.) 1881.

Abreu de Galinde, Juan de

1814. The history of the discovery and conquest of the Canary  
Islands. Transl. from a Spanish manuscript lately found  
in the island of Palma, by George Glas. In: J. Pinkerton.  
A general collection of the best and most interesting  
voyages and travels, London, 1808-1814. Vol. 16:808-26.  
(Fig, p. 821.)

## Acerete, A.

1949. Cria de frutales. Estac. Exper. de Aula Dei, (Zaragoza) Bol. 1:1-341. (Higuera, p. 306.) Mention only.

## Agusti, Miguel

1717. Libro de los secretos de agricultura, casa de campo y pastoril. 508 pp. Herederos de Juan Jolis, Barcelona. (Secretos de la higuera, pp. 120-22.) (First ed., 1617, Barcelona.) Short general account of culture and virtues.

## Agustin de Quinto

1861. Curso de agricultura práctica novísima quíá de labradores jardineros, hortelanos y arbolistas. 2 vols. D. Lecadio Lopez, Madrid. (Higuera, 2:63-65.)

## Algaida, Conde de la

1916. Las higueras en la hacienda de Pino Real. 16 pp. 4 illus. Imprenta Alemana, Madrid. Propagation, culture, handling the crop.

## Amaral, J. Duarte

1949. A produção e o comercio Portugueses de frutos e de produtos hortícolas em 1948. Junta Nac. das Frutas Bol. 9:67-87. (Figs, pp. 67, 76, 80, 82.)
1950. Aperçu sur la production et le commerce des fruits Portugais. Fruits d'Outre-Mer 5:113. From: A produção e o comercio, Feb. 1950.

## Anonymous

- 1859-1861. Exposición de agricultura. Memoria sobre los productos de la agricultura española reunidos en la exposición general de 1857. Cited by M. Colmeiro 1885-1889, for names and varieties of figs.
1883. Novísimo diccionario agricultura practica--formado y publicado por la Redacción de la biblioteca agricola ilustrado. 2 vols. Juan Llordachs, Barcelona. (Higo, Higuera, 2:46, 47. 1 figure.)
1917. Portuguese figs. Rural World, Jan. 13.
1925. Higuera. In: Enciclopedia universal. Ilus. Europea-Americana. Vol. 27:1581-86. J. Aspasa, Barcelona.
1949. Estatística. Junta Nac. das Frutas Bol. 9:293-337. (Figs passados, pp. 297, 311, 317, 322; Figs, pp. 328, 331, 336.)
1949. Relato ó da actividade dos Servicos Tecnicos em 1948. Junta Nac. das Frutas Bol. 9:531-652. (Figo, pp. 532, 536, 537, 549, 551, 568, 570, 571. See also: pp. 691, 695.)

Arago, D. Buenaventura

1874. Tratado completo del cultivo de arboles y arbustos frutales. 528 pp. Ed. Martinez, Madrid. (Higuera, pp. 324-34.) General; races and varieties of white, colored and black figs; propagation, culture, handling the crop fresh and dried.

Arias, Antonio S.

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1561. Semplici, liquali in piu pareri. 304 pp. Vinegia. Reference in: Bradley Bibliography 1:280. Refers to Caprificus and Ficus sativa, according to Saccardo, 1909.

Anonymous

- 1830-1851. Dizionario della scienze naturali. 22 vols. in 26. V. Batelli e Figli, Firenze. (Fico comune, 1:466-88.) History, varieties, culture, uses, drying.

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1889. The thoughts of the Emperor M. Aurelius Antoninus. Transl. by George Long. Rev. ed. 216 pp. George Bell & Sons, London. (Figs, p. 85.) "So figs are accounted fairest and ripest then, when they begin to shrink and wither as they were". "And again figs when at their ripest, pop open," referring to checking of skin.

Baldini, Enrico

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Bertoloni, Antonio

1819. Amoenitates Italicae. 472 pp. Annesii de Nobilibus, Bononiae. (Ficus carica, p. 425.) Brief, botany.

- 1833-1854. Flora Italica. 10 vols. Richardi Masii, Bononiae. (Ficus carica, 10:430-32.) References to literature, botany, uses; caprification, quotes Pliny.



Beyen, Hendrik G.

1928. Ueber Stilleben aus Pompeji und Herculaneum. 90 pp. M. Nijhoff, Gravenhage. Cited by John Day, 1932.

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1896. Flora of Bordighera and San Remo, Western Liguria. 345 pp. P. Gibelli, Bordighera. (Ficus carica, p. 252.) Trees growing in fissures of rocks.

Biroli, Giovanni

1808. Flora Aconiensis. 2 vols. Typogr. Viglevanensi. (Ficus, 2:144.) Cited by L. Fortunato 4:87. 1827. Reference in: Bradley Bibliography 1:425.

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Brucalassi, Antonio

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Bruttini, Arturo

1901. Dizionario di agricoltura. 2 vols. Francesco Vallardi, Milano. (Fico, 1:327. Figure 314.) Short, general.

Rubani, P.

- 1897-1901. Flora Pyrenaea. 4 vols. Hoeplius, Mediolani. (Ficus, fig, 1:72.)

Bussato, Marco

1609. Giardino d'agricoltura di Marco Bussato da Ravenna. 85 pp. Sebastian Combi, Venetia. (Fico, fichi, Cap. XIII, XIV, p. 9.) Short; climate, cultural conditions.

Caesalpini, Andrea

1583. De plantis, libri XVI. 621 pp. Georg. Marescottum, Florentiae. (Fig, Liber 3, cap 1, pp. 87-88.) Fig and caprifig described; refers to Theophrastus and Pliny.

Campagna, Giuseppe

1907. Ricerche sulla disseminazione per uccelli carpofigi. Malpighi 21:519-29. (Ficus carica, p. 523.) Fig seeds pass digestive tract of birds unaltered.

Camphausen, Edward

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Naples, pp. 760-761.) Also in: California State Bd. Hort. Rept. 1890:373-74. Short, general.

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1929. L'ordine dei tempi e delle forme in natura. 2 Parts. L. Cappelli, Bologna. Abstracted in: Biol. Abs. 5:1003. Rhythm in plant life shown by fig and its development.

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Carroll, Philip

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Rept., Govt. Pr. Office, Washington, D.C. (Palermo, pp. 761-62.) Also in: California State Bd. Hort. Rept. 1890:374-75. Short, general.

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Cassone, Felice

- 1846-1852. Flora medico-farmaceutica. 6 vols. Cassone, Torino. (Ficus carica, 5:400-410. Tab. 499 in color.) Varieties, analyses of fruit, chemical constituents.

Castelli, Pietro

1640. Hortus Messanensis. 51 pp. Viduae Bianco, Messanae. (Fico, p. 35.) Cited by F. Parlatore in Flora Ital., 1867.

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1934. Marcus Porcius Cato on agriculture. Transl. by W. D. Hooper. Revised by H. B. Ash. 157 pp. Harvard Univ. Press, Cambridge. (Figs, p. 21.) Instructions for planting.

**Celi, G.**

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**Cerio, Edwin**

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**Ceruti, Arturo**

1946. Botanica illustrata. 666 pp. Chiantore, Torino. (Fico, p. 297. Figure 339.) Short, general; figure of foliage, fruit, and flowers.

**Cesati, Vincenzo**

- 1867-1884. Compendio della flora Italiana, compilato per cura dei Prof. V. Cesati, G. Passerini e G. Gibelli. 906 pp. Vallardi, Milano. (Ficus carica, p. 234. Tab. 34.) Short botanical account; crops; caprification. Figure shows section of fruit and flowers.

**Chizzolini, G.**

1887. Della preparazione dei fichi secchi. L'Italia Agricola 19: 106-7, 123-25. Reasons for the decline in fig industry and inferiority.

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**Columella (1st Cent. A.D.)**

1745. L. Junius Moderatus Columella of Husbandry. In twelve books; and his book concerning trees. Transl. into English by M. C. Curtius. A. Millar, London. (Fig, pp. 244, 446, 519, 522.) Notes on grafting and budding, terminal bud pruning, varieties, drying, uses.

## Comes, Orazio

1879. Illustrazione delle piante rappresentate nei dipinti pompeiani. 74 pp. F. Giannini, Napoli. (Ficus carica, pp. 28-30.) Classical references.

## Comolli, Guiseppe

1824. Prodromum florae Comensis. 208 pp. C. Petri Ostinelli, Novi-Comi. (Ficus carica, p. 191.) Brief; spontaneous; many cultivated varieties.

- 1834-1857. Flora Comense. 7 vols. C. P. Ostinelli, Como. (Ficus carica, 7:28-29.) Brief account of fig and caprifig; references to literature.

## Conci, G.

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## Condit, Ira J.

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## Crescenzi, Pietro de

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## Cupani, Francesco

1696. Hortus Catholicus. 237 pp. Fr. Benzi, Neapoli. (Fico, p. 140; Ficus, pp. 130-41.) Fig varieties and species.

## Daubeny, Charles G. B.

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## Day, John

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## De Giorgi, C.

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## De Rosa, Francesco

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## Di Belmonte, Principe

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## Donno, Giacinto

1948. Il fico nel Salento. L'Agricoltura Meridionale 1(12):1-12. Extent of fig culture in So. Italy, "consociation" with olive, notes on varieties, methods of handling the crop.

## Durante, Castore

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## Ferrari, E.

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## Fiori, Adriano, and Giulio Paoletti

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1921. Iconographia florae Italicae; ossia, Flora Italiani illustrata. 545 pp. Val di Pesa, Fratelli Stianti. (Ficus carica, p. 114. Figure 907.) 1895 ed. Padova. 528 pp. (Ficus carica, p. 106. Figure 917.) Figure only of leaves and fruit.

## Forlani, Rodolfo

1915. Conservazione delle frutta, dei funghi, dei tartufi e degli ortaggi. 205 pp. L. Cappelli, Teramo. (Essiccamento dei fichi, pp. 72-78.) Drying; notes on varieties.

## Forti, Cesare

1930. Dizionario pratico di agricoltura. 2 vols. Unione Tipogr., Torino. (Fico, 1:382. 3 figures.) General; botanical description, caprification, analyses, pests; varieties listed.

## Gagliardo, G. B.

1806. Bibliotheca di campagna. Napoli. (Fig, Vol. 7:14, 19.) Cited by G. Celi, 1907.



Gallesio, Giorgio

1816. Teoria della riproduzione vegetale. Nicolo Capurro, Pisa.  
(Fico, pp. 73, 106.) Reference to mule flowers.

Gallo, Agustino

1588. Le venti giornate dell' agricoltura. 554 pp. G. D. Tarino, Torino. (Fico, p. 133.) Reference in: Bradley Bibliography 3:114.

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1860. Sulla maturazione e la qualita dei fichi dei contorni di Napoli. Accad. Pontaniana Napoli Atti 9:99-118. 1 Tab.

Giglioli, Italo

1903. Malessere agrario ed alimentare in Italia. 1-798. In: Portici R. Scuola Super. di Agr. Ann. (ser. 2):3. (Fichi, pp. 116, 121, 264, 286, 300-8.) Sugar content, exports; effects of caprification; quotes from L. O. Howard, 1901.

Guglielmi, G.

1908. Coltivazione industriale del fico nel Leccese. Memoria monografica. 32 pp. F. Giannini & Figli, Napoli. (Es-tratto dal Bol. dell' Arbor. Ital., An. 4.) Good account of fig culture in Lecce Province; climate, culture, varieties, caprification, harvesting.

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Harrison, Fairfax

1918. Roman farm management; the treatises of Cato and Varro done into English. 365 pp. The Macmillan Co., New York. (Fig, pp. 43, 80, 82, 114, 146, 155, 174, 263.)

Hirt, Herman A.

- (?)Anzeiger f. indogerm. Sprach.- und Altertumskunde 6:  
175. Cited by Ravasini, 1911, p. 27.

Hogg, John

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1842. A catalogue of Sicilian plants. Ann. and Mag. Nat. Hist. 10:287-335. (Ficus carica, p. 329.) Brief account.

Horace (Quintus Horatius Flaccus) (65-8 B.C.)

1934. Horace odes and epodes, ed. by C. E. Bennett. 500 pp. Allyn & Bacon, Boston. (Ficulnus. See Sermonum, Lib. Primus 8:l. "Ficulnus", trunk of fig tree.  
"In days of yore our godship stood  
A very worthless log of wood.  
The joiner doubting, or to shape us,  
Into a stool, or a Priapus  
At length resolv'd for reasons wise,  
Into a god to bid me rise."

Hughes, M.

1927. Italian fig culture. California Cult. 68:63. Short account.

Jones, W. S.

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Rept., Govt. Pr. Office, Washington, D.C. (Messina, pp. 758-60.) Also in: California State Bd. Hort. Rept. 1890:375-77. Short general account.

Lamantia, Vincent

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Lanza, Domenico

- 1932-1940. Fico. In: Enciclopedia Italiana 15:223-24. 1 figure. Rizzoli & Co., Milano. General on Ficus; good illustration of F. benghalensis.

Lastri, Marco A.

- 1801-1803. Corso di agricoltura. 5 vols. in 3. Stamp. del Giglio, Firenze. (Fichi, 4:172-75; 5:190-92.) Dottato leading variety; method of drying; list of varieties.

Lupo, Michele del

1891. Pomologia artificiale, secondo il sistema Garnier-Valletti. 131 pp. Ulrici Hoepli, Milano. (Frutti opachi, pp. 53-90.) Artificial fruits such as figs.

Mandirola, Agostino

1765. Manuel du jardinier, ouvrage nécessaire aux cultivateurs, amateurs, de la botanique et de la physique. Traduit sur l'original Italien par M. C. L. F. Randi. 455 pp. Saugrain, Paris. (Figuier, Chap. 30, pp. 382-402.) General account of the tree, propagation, planting, hardiness, varieties, caprification, uses.

Martial (38-102 A.D.)

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Martyn, Thomas

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Marzari-Pencati, Guiseppe

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Mattiolo, Oreste

1919. Sul pregiudizio che i fichi secchi e le castagne secche o crude facciano sviluppare e crescere i pidocchi sul capo di chi li mangia. Nuovo Gior. Bot. Ital. (n. ser.) 26:46-57. Review of early literature, properties, insects and other pests.

Mau, August

1902. Pompeii, its life and art. Transl. by Francis W. Kelsey. 557 pp. The Macmillan Co., New York. (Charred figs at Pompeii, p. 96.)

Mingioli, E.

1904. L'industria dei fichi secchi. Soc. Agr. Ital. Bol. Quindicinale 9:624-32, 656-63. Roma. Methods of drying, quality, varieties used, grades for export.

Mommsen, Theodor

1883. Inscriptiones Bruttiorum Lucaniae Campaniae Siciliae, Sardiniae, Latinae. Vol. 10, Pars. 1. In: Corpus Inscript. Latinarum. Georg. Reimerum, Berolini. (Il fico, No. 3812, p. 380.) Inscription given.

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Moricand, Moise E.

1820. *Flora Veneta*. 439 pp. Paschoud, Genevae. (*Ficus carica*, p. 420.)

Moris, Guiseppe (Joseph H.)

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(*Ficus carica*, 3:486-87.) Short; references to literature;  
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1840. *Florula Caprariae sive enumeratio plantarum in insula  
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Naccari, Fortunato L.

1826-1828. *Flora Veneta*. 6 vols. in 2. Bonvecchiato, Venezia.  
(*Ficus carica*, 5:87.) Short; several references to litera-  
ture.

Nocca, Dominicus, and J. B. Balbis

1821. *Flora Ticinensis*. 2 vols. J. J. Capelli, Ticini. (*Ficus  
carica*, 2:223.) Brief; botany, uses.

Notaris, Guiseppe de

1844. *Repertorium florae Ligusticae*. 495 pp. Typ. Regio,  
Taurini. (Fico, p. 368.) Cited by F. Parlatore, *Flora  
Ital.*, 1867. See: R. Accad. Sci. Torino Mem. 2, Sci. Fis.  
e Math. Vols. 8, 9. 1846, 1848.

Palladius, Rutilius T. A. (4th Century A.D.)

1873. *Palladius on hosbondrie*. From unique ms. of about 1420  
A.D. 387 pp. Ed. by Barton Lodge. Early English Text  
Soc. by N. Trubner and Co., London. (Fig, pp. 123, 125,  
126, 127, 128, 161.) Interesting references in verse.

Paolucci, Luigi

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(*Ficus carica*, p. 145.) Short reference to leaves and  
fruit.

Parlatore, Filippo

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crops, uses.

Parsons, S. B.

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Com. of Patents Rept. for 1859, Agriculture:100-36. (Figs,  
pp. 119, 129.) Short account of oleification; handling  
methods.

Pasquale, Guiseppe A.

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1876. Manuale di arboricoltura. V. Pasquale, Napoli. (Del fico, pp. 117, 485-503. Figures 40, 177-85.) Botany, varieties, culture, harvesting, caprification, maladies.

Passaro, Angelo R.

1862. Il Circondario di Vallo della Lucania. Quinta Inchiesta Agr. Atti Vol. 7. Roma. Cited by Siniscalchi, 1911.

Pellicano, A.

1907. Il fico circondario di Gerace. Bol. Arbor. Ital. Anno 3, (3-4 Trim.):122-50. General account; propagation, culture, varieties, diseases, handling the crop, economic considerations.

Petagna, Vincenzo

- 1785-1787. Institutiones botanicae. 5 vols. J. M. Porcelli, Neapoli. (Ficus carica, 5:1954.) Brief.

Pistone, A.

1889. Disseminazione zoofila per uccelli fitofagi. Naturalista Sicil. 9:221-25. (Ficus carica, p. 223.) Seeds distributed by birds.

Plinius Secundus, Gaius (61-113 A.D.)

- 1855-1890. The natural history of Pliny. 6 vols. English transl. by John Bostock and H. T. Riley. H. G. Bohn, London. (Fig, 3:307-13. See also: Book XV, Chap. 19, 20, 21.) Twenty-nine varieties listed; historical anecdotes; caprification.

Pollini, Ciro

1816. Viaggio al lago di Garda e al monte Baldo. 152 pp. Mainardi, Verona. (Ficus carica, p. 31.) Short account of fig and caprification.



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Porta, Giovanni B.

1583. Suae villae pomarium. 323 pp. H. Saluianum et C. Caesaris. (Fico, pp. 130-57.) References to previous authors; culture, pests.
1592. Villae Io. Baptistae Portae Libri XII. 914 pp. A. Wecheli heredes, Franco-furti. (De caprifico, pp. 171-73; De ficu, pp. 300-27.)

Portale, F.

1910. La coltivazione del fico nel circondario di Mistretta. Memoria monografica. Bol. Arbor. Ital. Anno 6:49-101. Figures 1-5. Good account of fig culture in Sicily; climate, propagation, culture, varieties, handling the crop, pests, exports.
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Presl, Karel B.

1826. Flora sicula exhibens plantas vasculosas in Sicilia aut sponte crescentes aut frequentissime cultas---. 44 + 216 pp. Pragae. (Ficu, p. 11.) Ficus carica sylvestris, 2 varieties; F. carica sativus, 40 varieties; no description.

Puccinelli, Benedetto

- 1841-1853. Synopsis plantarum in agro Lucensi sponte nascentium. Accad. Lucchese Atti 14:91-297. (Ficus carica, p. 295.) Additamentum in: Gior. Bot. Ital. 1:118-23. 1844. Reference in: Bradley Bibliography 1:426, incorrect.

Ravasini, Ruggero

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Riccobono, V.

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Richmond, Lewis

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Rept., Govt. Pr. Office, Washington, D.C. (Italy, p. 756.) Also in: California State Bd. Hort. Rept. 1890:370.

Rinio Benedetto (1415-1430)

- (?) Liber de simplicibus. (Codice nella Marciana di Venezia, di cui il Prof. Ettore de Toni scrisse un esteso commento, non ancor pubblicato. Cfr. Saccardo, La Botanica in Italia 1:138.) Cited by P. Saccardo, 1909, p. 71, for Ficus sativa.

Roda, Marcellino

1881. Manuale del frutticoltore Italiano. (2d ed.) 324 pp. G. B. Paravia, Roma. (Fico, pp. 237-50. Figures 158-62.) Same pages 1874 ed. History, climate, soil, propagation, culture, pruning; description of 5 white and 50 colored figs.

Roda, Marcellino, and Giuseppe Roda

1869. Corso teorico-pratico sopra la delle principali piante fruttifere. (3d ed.) 360 pp. Unione Tipogr., Torino. (Fichi, pp. 38, 285-91.) (2d ed.) 1857. Torino. 300 pp. (Del fico e della sua potatura, Capo 21, pp. 237-42.) General; culture, pruning.

Romano, Girolamo

1828. Le piante fanerogame Euganee. 21 pp. Padova. Reference in: Bradley Bibliography 1:426. Cited by F. Naccari, Flora Veneta 4:87. 1827.

Rossi, Ferdinando

1880. Produzione dei fichi secchi in Italia. 20 pp. Accad. Scienze, Napoli. Estratto: R. Scuola Super. Agr. Portici Ann. 2:277-94. Statistics; methods of drying, analyses.

Rostovtsev, Mikhail I.

1927. Mystic Italy. (Brown Univ. Colver lectures.) 176 pp. Henry Holt and Co., New York. (Fig paintings, p. 63. Pl. 8.)

Ruchinger, G.

1816. Flora dei lidi Veneti. 304 pp. Giacomo Fuchs, Venezia. (Ficus carica, p. 252.) Short botanical description from other authors; brief note.

Ruggiero, Michele

1885. Storia degli scavi di Ercolano, ricomposta su documenti superstiti. Napoli. (Figs found in ruins.) Cited by Waldstein and L. Shoobridge, 1908, p. 122.

Saccardo, P. A.

1909. Cronologia della Flora Italiana. 390 pp. Tip. del Seminario, Padova. (Ficus carica, p. 71.) Citations to literature.

[Sansovino, Francesco]

1560. Della agricoltura di M. Giovanni Tatti (Pseudo) Lucchese. Libri cinque. 187 pp. Appresso F. Sansovino et Co., Venetia. (Fichi, pp. 157-59.) Culture; medicinal properties.

Sartorelli, Giovanni

1816. Degli alberi indigeni ai boschi dell' Italia superiore. 454 pp. Baret, Milano. See p. 407. Reference in: Bradley Bibliography 1:423. Cited by L. Fortunato 4:87. 1827.

Savastano, L.

1884. Il fico. R. Scuola Super. Agr. Portici Ann. 4:49-64.
1885. Di alcune colture arboree della Provincia di Napoli. 135 pp. Tip. Ferrante, Napoli. (Fico, pp. 27-40.) Estratto: R. Scuola Super d'Agr. Portici Anno 4, (4). Propagation, culture, caprification, varieties.
1908. Come si studiano le varietà in arboricoltura. Nota. Bol. dell'Arbor. Ital. Anno 4:33-40; 126-36. (Fico, pp. 133-34.) Brief.

Savi, Gaetano

1798. Flora Pisana. 2 vols. Giacomelli, Pisa. (Fico, 2:400.) Fico salvatico briefly described.
1801. Tratto degli alberi della Toscana. 250 pp. Pisa. (Ficus carica sylvestris, pp. 79-80.) (2d ed.) 2 vols. G. Piatti, Firenze. 1811. (Fico, 1:116.) Same text in the two editions; brief, general.

Scaramuzzi, Donato

1945. Coltivazione delle piante legnose da frutto. 687 pp. Luigi Macri, Bari. (Fico, pp. 218-22.) Botany, caprification, notes on varieties.

Sebastiani, Antonio, and Ernesto Mauri

1818. Florae Romanae prodromus. 351 pp. Poggioli, Romae. (Ficus carica, p. 336.) Short, general.

Seguier, Jean F.

1745. Plantae Veronensis. 2 vols. Typ. Seminarii, Veronae. Cited by Saccardo, 1909, for Caprificus.

## Serapion

1473. *Serapionis liber aggregatus il giovane in medicinis simplicibus*. 397 pp. Reference in: Bradley Bibliography 1: 274. Cited by O. Mattiolo, 1919. "Capitul. 204. Cart. 84. Virtù del Fico."

## Simeone, Seth

1561. *Antiochiaae Syntagma per elementorum ordinem*. Pernam, Basiliae. (See p. 102.) Cited by O. Mattiolo, 1919.

## Simi, Emilio

1851. *Flora Alpium versiliensium exhibens plantas in illis Apuanarum alpium regionibus sponte crescentes*. 274 pp. Massae. (*Ficus carica*, p. 197.) Cited by F. Parlatore in *Flora Ital.*, 1867.

## Siniscalchi, A.

1911. *La coltivazione del fico nel Cilento (Prov. di Salerno)*. Memoria monografica. 22 pp. Estratto dal Boll. dell' Arbor. Italiana Anno 7:25-41; 49-53. General account of the industry, varieties, culture, caprification, pests, handling the crop.

## Suter, Johann

1802. *Flora Helvetica*. 2 vols. Impr. Orell, Turici. (*Ficus carica*, 2:301.)

## Tamaro, Domenico

1920. *Tratado de fruticultura*. Italian version by Dr. A. Caballero. 933 pp. Gili, Barcelona. (Higuera, pp. 800-24. Figures 631-45.) 4th ed. 1948. 939 pp. Cochabamba, Buenos Aires. See also: pp. 444, 445, 447. General account. Illus. of varieties as follows: *Violada blanca*, *Breva nigra*, *Datto*, *Dottato*, *Monaco*, *Portuguera*, *Reina*, *Esmirna*, *Trojano*, *Verdillo*. Illustrations rather crude if not fanciful drawings; for example, fruits shown with stems coming from internodes.
1923. *Trattato completo di agricoltura*. 2 vols. U. Hoepli, Milano. (*Fico*, 2:948-50.)

## Tanara, Vincenzo

1651. *L'economia del cittadino in Villa del Sig. Vincenzo Tanara*, Libri VII. 624 pp. Eredi del Dozza, Bologna. (*Fico*, pp. 376-80.) Descriptions and observations on Bolognese varieties and their behavior.

## Tanzer, Helen H.

1924. *The villas of Pliny the younger*. 152 pp. Columbia Univ. Press, New York. (Fig. pp. 10, 89.) Many mulberry and fig trees in the garden; soil favorable.

## Targioni-Tozzetti, Antonio

- 1822-1829. Raccolto di fiori, frutti et agrumi piu ricercati per l'adornamento dei giardini disegnati al naturale da vari artisti. 86 pp. Firenze. Publ. in 14 fasc. Unnumbered colored plates. (Ficus carica verdecchius Aldrov., t. 33; F. carica fructu virgato Micheli, t. 39.) Cited by O. Stapf, Index Londinensis, 3:188.

- 1828-1830. Sommario di botanica medico-farmaceutica e di materia medica. G. Galletti, Firenze. (Ficus carica, pp. 285-86.) Brief description; properties of the latex.

1896. Cenni storici sulla introduzione di varie piante nell'agricoltura ed orticoltura toscana. 270 pp. M. Ricci, Firenze. Summary in: London Hort. Soc. Jour. 9:133-81. (Fico, pp. 105, 142-46.) Early history; variety notes.

## Tenore, Michele

1813. Catalogus plantarum horti Regii Neapolitani ad annum 1813. 122 pp. Angeli Trani, Neapoli. (Ficus carica, p. 41.) Listed only. Fig tree indigenous.
- 1811-1838. Flora Napolitana. 5 vols. Stamperia Reale, Napoli. (Ficus carica, 5:299.) Cited by F. Parlatore in Flora Ital., 1867.
1831. Sylloge plantarum vascularium florae Neapolitanae hucusque detectarum. 555 pp. Typ. Fibreni, Neapoli. (Ficus carica, p. 30.) Listed only as frequent on walls.
1854. Catalogus plantarum horti regii neapolitani ad annum, 1813. 122 pp. A. Trani, Neapoli. (Ficus carica, p. 41.) Listed only.

## Trinci, Cosimo

1726. L'agricoltore sperimentato, opera di Cosimo Trinci. 314 pp. Salvatore e G. Marescandoli, Lucca. (Trattato de fichi, pp. 162-80.) Also in: L'agricoltore sperimentato di Cosimo Trinco con il manuale de'giardinieri del P. Agostino Mandirola. 135 pp. Per P. Berno Libr., Roveredo. (Fichi, pp. 118-31.) Soil, climate, culture.

## Ucria, Bernardinus da

1789. Hortus regius Panhormitanus aerae vulgaris anno 1780. 498 pp. Typis Regiis, Panormi. (Fico, p. 431.) Ficus: "hermaphrod. commune turbinarum carnosum."

## Vallese, F.

1909. Il fico. 381 pp. 123 figures. Di Francesco Battiato, Catania. Complete book on Italian figs and fig culture.



Varro, Adalberto A.

1946. *Le piante medicinali*. 446 pp. Garzanti, Cernusco sul Naviglio. (Fico, p. 162.) Short.

Varro, Marcus T. (116-27 B.C.)

1912. Varro on farming. *Rerum rusticarum libri tres*. Transl. with introduction, commentary and excursus by Lloyd Storr-Best. 375 pp. G. Bell and Sons, London. (Fig, pp. 83, 89, 118. See index.) Observations on propagation, culture, varieties.

1934. Marcus Terentius Varro on agriculture. Transl. by W. D. Hooper. Revised by H. B. Ash. pp. 160-529. Harvard Univ. Press, Cambridge. (Figs, pp. 273, 415.) Propagation; "better to plant in the nursery shoots from the fig tree than grains from the fruit"; milk from fig stem curdles milk.

Venuti, Antonio

1591. Antonini Venuti notensis de agricultura opusculum. /Colophon: in Venetia per Marchio Sessa anno domini MDXXXI. 79 pp. Pages not numbered. 28 Caps. (Del fico, Cap. IX. 8 pp.) According to Solms-Laubach 1882, Venuti was a Sicilian who apparently discussed the fig tree based on his own experiences although he ignored caprification.

Vigiani, Dante

1946. *Coltivazione legnose*. (5th ed.) 369 pp. Citta di Castello, Genova. (Fico, pp. 320-23. Figure 155.) General; origin, method of growth, varieties, propagation, culture.

Visiani, Robertus de

1842-1852. *Flora Dalmatica*. 3 vols. Fr. Hofmeister, Lipsiae. (Ficus carica, 1:220.) Short; botany, uses.

Waldstein, Charles, and L. Shoobridge

1908. *Herculaneum, past, present and future*. 324 pp. Macmillan and Co., London. (Figs found in ruins, p. 122.)

Woodcock, Albert

1897. *Fruit culture in foreign countries*. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Rept., Govt. Pr. Office, Washington, D.C. (Catania, pp. 756-68.) Also in: California State Bd. Hort. Rept. 1890:370-71.

Zangemeister, Karl F.W.

1871. *Inscriptiones Parietariae Pompeianae*. Vol. 4 in: *Corpus Inscript. Latinarum*. Georg. Reimer, Berolini. (Ficus, No. 1820, p. 115; No. 2568, p. 175.) Inscription cited on amphora.

## GREECE AND CYPRUS

## Alexopoulos, Alex

1936. Market for machinery to process currants, raisins and figs in Greece. *Blue Anchor* 13(6):17. June. No modern machinery is employed by fig packers.

## Anagnostopoulos, P. Th.

1932. The withering of shoot tips in the fig. (In Greek.) *New Agri. Life*, June 19. 2 pp.
1934. Types of fig in Greece. (In Greek.) *Greek Fig Producer* 1:4-14. Abstracted in: *Hort. Abs.* 5:7. All four fig types found in Greece.
1937. New fruits: Kadota and Brown Turkey figs. (In Greek with English summary.) *Hort. Res. (Athens)* B(4):376-79. 2 figures. These two varieties introduced and fruited well.
1939. New fruits. *Hort. Res. (Athens)* 1939(4):298-300. Kadota and Turkey figs acclimatized in Greece.

## Anonymous

1900. Feuilles d'information du Ministère de l'Agriculture. Paris Soc. d'Acclim. Bul. 47:62-64. Fig in Greece described.
1919. Exports of figs from Greece to United States. *California Fruit News* 60(1618):6. July 12.
1925. Smaller Greek fig crop for 1925. *California Fruit News* 72(1942):10. Sept. 26. Statistics, 1913-1924.
1928. Production and exportation of Greek dried figs. *California Fruit News* 78(2104):9. Nov. 3. Transl. from Athens paper; statistics.
1930. Development of an export trade in figs. *Cyprus Agr. Jour.* 25:49.
1931. Commercial fig production. *Cyprus Agr. Gaz. Suppl.* 37 (2151):1-2. July 31. See also: *Cyprus Gaz.* 24(3):July 1929; 25(3):July 1930. A general account of fig culture in Cyprus and handling the crop.
1932. Plan to improve Greek fig pack. *California Fruit News* 85(2280):9. Mar. 19.

1933. Production of figs in Greece. Internatl. Rev. Agr. 25(5): 21T-23T. Since 1929 an organization in Greece called "Office for protection of Greek Figs.", mainly concerned with improvement of industry.

1936. Dry fig production in Greece. California Fruit News 94(2528):10. Dec. 19.

Aristotle (384-322 B.C.)

1878. Aristotle's history of animals. In 10 books. Transl. by Richard Cresswell. 326 pp. Bell and Sons, London. (Figs, pp. 126, 136, 202, 206, 221, 276.) Refers to caprification, bird known as fig pecker, use of figs for hog feed.

Bevan, W.

1919. Notes on agriculture in Cyprus and its products. 105 pp. Imperial Institute, London. (Fig, pp. 44-45.) Abstracted in: Rev. de Bot. Appl. 3:230-32. 1923. Cyprus figs only of moderate quality; describes oleification.

Bory de Saint-Vincent, J. B. G.

1838. Nouvelle flore du Péloponnèse et des Cyclades, entièrement revue, corrigée et augmentée par M. Chaubard. 87 pp. F. G. Levrault, Paris. (Ficus carica, p. 65.) Short description.

Broughton, John C.

1813. A journey through Albania and other provinces of Turkey in Europe and Asia to Constantinople during the years 1809 and 1810. 1150 pp. James Cawthorn, London. (Fig, pp. 227, 629.) "The green fig is reckoned a great delicacy, but to me it seemed tasteless"; in Greece.

Caldis, P. D., and Henri Roy

1947. Crop husbandry. Pp. 121-33. In: Report of the FAO Mission for Greece. Food and Agr. Organ. of United Nations, Washington, D.C. (Figs, pp. 129, 131.)

Candolle, Aug. P.

1828. Aug. Pyrami de Candolle botanicon Gallicum. (2d ed.) by J. E. Duby. 2 parts. Desray, Paris. (Ficus carica, 18419.) Brief account.

Carapateas, Sotiris

1916. Kalamata Agency, Greece. In: Suppl. to U. S. Com. Repts. 7a:9-12. Aug. 22. (Figs, pp. 9, 10.) Weather conditions for figs favorable and the increased crop was of superior quality; export figures.

1917. Kalamata Agency, Greece. In: Suppl. to U. S. Com. Repts. 7a:10-11. Aug. 24. Fig crop showed decrease of 42% but quality was excellent; export figures.

## Condit, Ira J.

1924. The fig industry of the Old World. Greece. Assoc. Grower 6(9-10):14-15, 22. 2 illus. Also in: California Fruit News 73(1980):16, 17, 18. June 19, 1926. A general account of fig industry of Greece.

## Crowe, A. L.

1884. Fig in Zante, Greece. U. S. Cons. Rept. 44:652. Brief.
1897. Fruit culture in Zante. U. S. Spec. Cons. Repts. Fruit culture in foreign countries. 1:916-22. (Figs, pp. 921-22.) No commercial production; no figs dried.

## Dawe, M. T.

1930. Cyprus Dept. Agr. Ann. Report for 1929. 56 pp. (Figs, p. 18.) Improved methods of drying and packing studied.
1931. Cyprus Dept. Agr. Ann. Report for 1930. 55 pp. (Figs, p. 17.) Fig experiment station established at Livadhia in the Larnaea District.
1932. Cyprus Dept. Agr. Ann. Report for 1931. 64 pp. (Figs, p. 15.) Assistance given in improved methods of drying and packing.
1933. Cyprus Dept. Agr. Ann. Report for 1932. 38 pp. (Figs, p. 14.) Production about average but quality poor.

## Dodwell, Edward

1819. A classical and topographical tour through Greece. 2 vols. Rodwell and Martin, London. (Fig, 2:65.) Cited by Karl Ritter (1844), Die Asiatische Heimath des Feigenbaums.

## Ehrhardt, John G.

1922. Greece. U. S. Com. Repts. Suppl. Trade and Econ. Rev. for 1922. (40):1-24. (Figs, pp. 18, 19, 20.) Export figures.

## Epictetus

1890. The discourses of Epictetus. Transl. by George Long. 452 pp. George Bell and Sons, London. (Fig, p. 49, Chap. XV.) Is then the fruit of a fig tree not perfected suddenly and in one hour, and would you possess the fruit of a man's mind in so short a time and so easily?

## F., H. G.

- Fragmenta historicorum Graecorum. Ed. by C. Müller. Cited by Athenaeus in The Deipnosophists, 1927, pp. 321-47.

Felton, C. C.

1893. Greece, ancient and modern. 2 vols. in one. Houghton, Mifflin and Co., Boston. (Figs, 1:405, 406.) Verses from Athenaeus and Alexis, the latter introducing a poor woman's food:

"As to figs - the Phrygian treat,  
Fit for Jove's own guests to eat"

Ferriman, Z. D.

1910. Home life in Hellas. 338 pp. Mills and Boon, London. (Fig, p. 111.) Island of Santorin. There is not a tree on the island save a few figs and the fig tree has a talent for thriving on stones.

Fiedler, Karl G.

- 1840-1841. Reise durch alle Theile des Königsreichs Griechenland. 2 vols. Leipzig. In Vol. 1: Uebersicht der Gewächse des Königsreichs Griechenland, pp. 507-858. Dresden. (Feigen, pp. 606-13.) Account of the wild and domestic fig tree, flowers, caprification, oleification, varieties.

Frazer, James G.

1913. Pausanias' description of Greece. 6 vols. Macmillan and Co., London. (Fig, 6:65. See also: 1:37:2; 4:20:2; 6:18:5.) "Here the lordly hero Phytalus once received the august Demeter when she first revealed the autumnal fruit which the race of mortals names the sacred fig."

Gardner, Percy, and P. B. Jevons

1898. A manual of Greek antiquities. (2d ed.) 744 pp. Charles Griffin and Co., London. (Figs, p. 327.) Staple food of Athenians included figs.

Gennadius, P. G.

1895. Report on the agriculture of Cyprus. 3 parts. Govt. Pr. Office, Nicosia. (Fig, 2:17.) Fig the object of special cultivation in some districts.
1903. The fig tree. Cyprus Dept. Agr. Ann. Report 1902-1903: 5-7. Figs cultivated since ancient times; oleification described.
1914. [Phytological dictionary.] (In Greek.) 1148 pp. Athens. (Ficus carica, pp. 924-41.) General account.

Gilbart, James W.

1847. Lectures on the history and principles of ancient commerce. 316 pp. Smith, Elder and Co., London. (Figs, p. 59.) Export of figs prohibited from Athens.



## Glotz, G.

1925. Aegean civilization. 422 pp. Kegan Paul, Trench, Trubner & Co., London. (Fig, pp. 10, 163-64, 390.) Fig known even in neolithic Thessaly.

## Halacsy, E. de

1904. Conspectus florae Graecae. 3 vols. G. Englemann, Lipsiae. (Ficus carica, 3:115.) Brief; citations to literature.

## Haller, Alberti

1768. Historia stirpium indigenarum Helvetiae. 3 vols. Soc. Typogr., Berne. (Ficus carica, No. 1607, 1:280-81.) Short description of tree and fruit; caprification.

## Heldreich, Theodor

1862. Die Nutzpflanzen Griechenlands. 103 pp. Karl Wilberg, Athens. (Ficus carica, pp. 20-21.) Caprification no longer of any benefit.

1878. La faune de Grèce. Cited by Olck in Paulys Real-Encycl., Vol. 6.

## Hesiod (8th Cent. B.C.)

1915. Hesiod: Homeric hymns and Homeric, Greek text with an English transl. by Hugh G. Evelyn-White. 597 pp. The Macmillan Co., New York. Conversation between Calchas, the seer, and Mopsus regarding the number of figs on a wild fig tree. Also: "Another time for men to go sailing is in spring when a man first sees leaves on the topmost shoot of a fig-tree as large as the foot print that a crow makes."

## Hippocrates

1923. Hippocrates. Transl. by W. H. S. Jones. 4 vols. Harvard Univ. Press, Cambridge. (Fig, 4:337.) The green fig moistens, passes well by stool and warms. The first crop of figs is the worst, because such figs have most juice, the latest are the best. Dry figs are burning, but pass well by stool.

## Holmboe, Jens G.

1914. Studies in the vegetation of Cyprus based upon researches during the spring and summer of 1905. 344 pp. J. G. Boktrykkeri, Bergen. (Ficus carica, pp. 62, 199, 203, 238, 321.) Fig tree grows wild and is cultivated in several varieties.

## Homerus

1909. The Odyssey of Homer. Transl. by S. H. Butcher and A. Lang. In: The Harvard Classics, Vol. 22. 347 pp. (Fig, pp. 171, 340.) Ulysses: "Pear trees thirteen thou gavest me, and ten apple trees and figs two score." A great fig tree growing at Charybdis.

1911. The Iliad of Homer. Transl. into English verse by Arthur G. Lewis. 793 pp. Baker and Taylor, New York. (Book V, p. 168: As the wild-fig tree's sap, a watery juice, curdles white milk; Book VI, p. 124, line 433: And stay thy folk beside the fig tree where best the city may be scaled; Book XI, p. 207, line 167: past the place of the wild fig tree they sped.)

Kaloyereas, Socrates

1930. /The fig in Greece and elsewhere. Production and industry of figs in Greece, California, Smyrna, Italy, Algeria, Spain, and Portugal./ (In Greek.) 68 pp. Illus. Greek Agr. Society. History, nutritive value, culture in Greece, diseases and pests, sanitation of packing plants.
1935. /Contribution à l'étude de la technologie des figues./ (In Greek. Conclusions in French.) 29 pp. Alex. Vitsikounaki, Athens. Conservation of fresh figs, sulphuring, drying, products.

Koch, Karl

1879. Die Bäume und Sträucher des alten Griechenlands. 270 pp. F. Enke, Stuttgart. (Feigen, pp. 72, 73.) Short; legends, history, distribution.

Krimpas, Vassos

1916. /The deterioration of the fig in Messenia./ (In Greek.) 16 pp. In: The New Agriculturist, Athens. Describes decline of fig orchards; trees attacked by borer, Hypoborus ficus. Causes of decline are: poor planting, neglect of trees, lack of fertilization, poor drainage.

Kyriakos, Georgios

- 1891-1892. /The fig tree in Messenia./ (In Greek.) Greek Agr. 7:498-505, 561-79; 8:14-20, 71-78, 113-22, 166-72, 201-9, 255-61.

Law, A. F. G.

1888. Colonial fruit. Cyprus. Kew Roy. Bot. Gard. Bul. Misc. Inf. 1888:245-47. (Fig, pp. 245, 246.) Figs not of very fine quality.

McDonald, J.

1938. Cyprus Dept. Agr. Ann. Report for 1937. 58 pp. (Fig, p. 11.) Fig crop heavy but badly damaged by fruit fly.
1944. Cyprus Director Agr. Ann. Report for 1943:1-4. (Fig, p. 1.) Increased prosperity of fig industry.
1948. Cyprus Dept. Agr. Ann. Report for 1947:1-11. (Figs, p. 5.) Statistics on trees and production.

1949. Cyprus Dept. Agr. Ann. Report for 1948:1-11. (Figs, pp. 6, 8.) Fig drying took place on a large scale; production, exports, value.

1949. Investigations and developments in Cyprus agriculture 1938-1948. 56 pp. Govt. Pr. Office, Nicosia. (Figs, p. 36.) Production, sulfur bleaching, canning trials.

Miller, Walter

1941. Greece and the Greeks. 508 pp. The Macmillan Co., New York. (Figs, p. 105; sycophants, p. 302.) Figs common food of Greek laborers; sycophant explained.

Mommsen, August

- 1875-1877. Griech. Jahreszeiten 1875-77:583. Cited by F. Olck, 1894-1919, 6:2099. Many varieties of figs cultivated, the early ripening in July.

1898. Feste der Stadt Athen im Altertum. 548 pp. B. G. Teubner, Leipzig. (Feige, see index.)

Mosso, Angelo

1907. The palaces of Crete and their builders. 348 pp. G. P. Putnam's Sons, New York. (Fig, p. 197.) The sacred tree in the "temenos" was a fig tree.

Myrianthis, M. Th.

1928. Cultivation of the fig tree. Cyprus Agr. Jour. 23:18, 53.

Plato (427-348 B.C.)

1892. Dialogues of Plato. Transl. by B. Jowett. (3d ed.) 5 vols. Oxford Univ. Press, London. (Fig, 5:227; laws, 844.) Laws regarding fruit; "if a slave touches any fruit of this sort, without the consent of the owner, he shall be beaten with as many blows as there are grapes on the bunch, or figs on the fig-tree."

Plutarch (46-120 A.D.)

1905. Plutarch's lives. The translation called Dryden's, by A. H. Clough. 5 vols. A. L. Burt, New York. (Solon, pp. 154-85. Fig, p. 175.) Law to prohibit planting of fig or olive tree nearer than 9 feet of property line. Solon permitted only oil to be exported.

Reynier, Louis

1825. De l'économie publique et rurale des Grecs. 535 pp. J. J. Paschoud, Paris. (Figuier, p. 456.) Caprification employed by Greeks.

Seymour, T. D.

1914. Life in the Homeric age. 702 pp. The Macmillan Co., New York. (Fig, pp. 249, 339.) Clearly the fig was not so important in Greece as among the Semites.

## Sibthorp, Johannes

- 1806-1813. *Florae Graecae Prodrromus*, elaboravit. J. E. Smith. 2 vols. R. Taylor, London. (*Ficus carica*, 2:268.) In Greece and the archipelago.

## St. John, J. A.

1842. The history of the manners and customs of ancient Greece. 3 vols. R. Bentley, London. (Fig, 2:124, 154, 158, 276.) Refers to methods of using figs, caprification, various kinds.

## Symeonides, P. M.

1930. The production of figs in Cyprus. *Cyprus Agr. Jour.* 24: 106-9. Good account; statistics, varieties, oleification.

## Theophrastus (372-287 B.C.)

1916. Enquiry into plants. Transl. by Sir Arthur Hort. 2 vols. G. P. Putnam's Sons, New York. (Fig, see index.) Caprification; gall insects come out of the wild figs, eat the tops of the cultivated figs, and so make them swell.
1927. Theophrastus: de causis plantarum. Book 1; text, critical apparatus tr., and commentary by Robert E. Dengler. 143 pp. R. E. Dengler, State College, Penn. (Fig, pp. 15, 43, 53, 65, 89, 99, 111, 115, 127.) Fig trees from seeds and cuttings; grafting; fig juice coagulates milk; oleification; figs and white grapes bear best in years of luxuriant leafage.

## Unger, Franz, and Th. Kotschy

1865. Die Insel Cypern, ihren physischen und organischen Natur. 598 pp. Wilhelm Braumuller, Wien. (Die Feigen, p. 458.) Refers to Pliny who stated Cyprus figs are excellent.

## Weston, B. J.

1933. Annual report of the horticulturist. In: Cyprus Dept. Agr. Ann. Report for 1932: 50-55. (Fig, p. 53.) The production of figs was moderate and packing showed some improvement.

## Xenophon (430-355 B.C.)

1727. The science of good husbandry or the oeconomics of Xenophon. Transl. by Richard Bradley. 131 pp. T. Corbet, London. (Fig, pp. 114, 117.) "And must I raise a fig tree" answered Socrates, "as I do the vines." "I suppose so," said Ischomachus, "for he who is master of the art of raising vines, may as well raise figs."

## ENGLAND

Abbey, G.

1865a. Fig trees in pots. Jour. Hort. and Cottage Gard. 9:21-22.

1865b. Cultivation of the fig. Jour. Hort. and Cottage Gard. 9:278-80.

1865c. Propagation of the fig. Jour. Hort. and Cottage Gard. 8:409.

1866. Cultivation of fig on walls. Jour. Hort. and Cottage Gard. 10:413-15.

Abbott, T. W.

1857. The fig. Florist, Fruitist and Garden Misc. 10:71-74.

Abercrombie, John

1779. The British fruit gardener and art of pruning....first publ. under the name of Tho. Mawe. 346 pp. Lockyer Davis, London. (The fig tree, pp. 144-57.) A general account; varieties listed only.

Aiton, William

1789. Hortus Kewensis; or a catalogue of the plants cultivated in the Royal Botanic Garden at Kew. 3 vols. George Nicol, London. (Ficus carica, 3:449.) Common fig tree, native of the south of Europe.

Anderson, James

1874. The new practical gardener and modern horticulturist. 988 pp. Wm. Mackenzie, London. (Fig, pp. 304, 342-44, 506.) General on culture in the open air and in the "fig house." A venerable fig tree in a lean-to house at Petworth, producing 2,000 figs in September. Color plate of Brunswick; variety descriptions by A. F. Barron.

Anonymous

1821. Remarkable fig tree. Edinburgh Philos. Jour. 5:229-30. Marseilles fig tree, 6 ft. 9 in., circumference.

1837. The Penny cyclopedia of the society for the diffusion of useful knowledge. 27 vols. Charles Knight, London. (Fig, Vols. 9-10:267-68.) General account.

1848. Notes made in the garden of the Horticultural Society upon the rate of growth by plants at different periods of the day. Roy. Hort. Soc. Trans. (2d ser.) 3:103-13. Measurements of elongation of fig at 4 periods of each day and night at an average temp. of 69°. No definite conclusion.



1862. Figs. Jour. Hort. and Cottage Gard. 2(n.s.):73.
1866. Pinching fig tree shoots. Jour. Hort. and Cottage Gard. 11:276.
1873. Figs. New Practical Gardener. Also in: Garden 3:150. Notes on several varieties.
1874. The Sussex fig orchards. Garden 6:220. Description of the fig orchards at Tarring.
1875. Fig Sunday. Gard. Chron. 3(n.s.):310. March 7 known as Fig Sunday; fig pie eaten at dinner.
1878. Figs and fig culture. Field. Also in: Garden 14:584. Good account of the Raby Castle, Castle Kennedy and other figs.
1879. On the culture of the fig. Floral World and Garden Guide (2d ser.) 14:108-10, 273-75.
1882. Culture of figs in Colonies. Colonies and India. Also in: Gard. Chron. (n.s.) 17:227. Record of planting and production in Australia, Georgia and California.
1890. Fig cultivation in Sussex. Garden 37:427-28. Good general article.
1897. Bagging figs. Garden 51:56. Hundreds of muslin bags used to cover the fruits as soon as they begin to ripen.
1900. Notes on figs under glass. Jour. Hort. 52:220. See also: 53:246. 1901.
1901. The Tarring fig gardens. Garden 60:267-68. Quoted from an old book, "Sussex industries."
1904. A fig tree in Sark. Garden 66:318. Fig tree 300 years old with branches supported by stout uprights.
1919. Fig trees in London. Gard. Chron. (3d ser.) 65:189. Several trees located.
1924. Fig cultivation. [Gt. Brit.] Min. Agr. and Fisheries Jour. 30:1153-56.
1929. The fig tree. Gard. Chron. (3d ser.) 86:277. Editorial. Comments on trees and fruit.
- 1929-1933. Botany: plants and gardening. 239 pp. Encyclopedia Britannica Booklet No. 9. New York and London. (Ficus carica, p. 66. 1 figure.)

1932. Figs and fig cake--imports. Canned and dried fruit supplies in 1931. Empire Mark. Board 55:86, 97, 99. Import statistics.
1941. Figs. Gard. Chron. (3d ser.) 110:37. Editorial; culture.
1945. The John Street fig tree. Gard. Chron. (3d ser.) 118:185. Figure 90. Fig trees in London, at Trafalgar Square, National Gallery and John Street.
1945. Culture of the fig. Fruit Grower, Fruiterer, Florist and Market Gard. 100:315. Oct. (By "A. Swallow.")

Archer, Thomas C.

1853. Popular economic botany. 359 pp. 13 color pls. Reeve & Co., London. (*Ficus carica*, pp. 26-29. Pl. 5, figure 22 in color.) 1865 ed., entitled "Profitable plants." Routledge, London. Popular account of fruit, caprification, uses.
1858. Report on the animal and vegetable products imported into Liverpool from the year 1851-55. Brit. Assoc. Adv. Science Rept. 1857:255-307. (Fig, p. 280.) Brief; imports from Turkey and Greece, 297 to 389 tons annually.

Austen, R. A.

1657. Treatise of fruit trees. 140 pp. (2d ed.) Henry Hall, Oxford, for Thomas Robinson. (Fig, pp. 58, 84.) Quotes from Pliny and Francis Bacon.

Ayres, W. P.

1855. Winter figs at Singleton. Gard. Chron. 15:119. "Singleton Perpetual" figs ripe at Christmas.

B.

1876. The Covent Garden black fig. Garden 10:35. Imported from southern France, the correct name being Black Bordeaux or Violet Longue.

Bacon, Francis (1561-1626)

1860. The works of Francis Bacon. 15 vols. Brown and Taggard, Boston. Essay: Of gardens, Vol. 12:235-45. (Fig, p. 237.) In May and June come figs in fruit.

Bagenal, N. B.

1945. Fruit growing. Modern cultural methods. (Rev. ed.) 416 pp. Ward Lock & Co., London. (Fig, pp. 64, 243-47, 367, 380-82. 1 pl.) General; origin, history, soil, propagation, culture, harvesting fresh, varieties, pests.

## Bailey, Henry

1851. On the cultivation of the fig tree under glass. London Hort. Soc. Jour. 6:242-45. Details of culture; largest trees capable of growing in least imaginable quantity of earth; control of red spider; full exposure to light.

1861. Fig pruning. Jour. Hort. and Cottage Gard. 2:234.

## Banks, Joseph

1820a. On ripening the second crop of figs that grow on the new shoots. Royal Hort. Soc. Trans. 1:252-54. Tree covered with glass case and heat provided.

1820b. On the forcing-houses of the Romans, with a list of fruits cultivated by them, now in our gardens. Royal Hort. Soc. Trans. 1:147-56. (Figs, pp. 152, 156.) Romans had many sorts, black and white, large and small, one as large as a pear, another no larger than an olive.

1820c. Some horticultural observations selected from French authors. Royal Hort. Soc. Trans. 1(Appendix):4-10. (Figs, pp. 6-7.) Notes on fig culture at Argenteuil, near Paris.

## Barlow, William

1609. An answer to a Catholike Englishman. 370 pp. Thomas Haveland for Mathew Law, London. Page 23: Cardinals Allen and Tollet, "yea Pope Sixtus quintus himselfe, all figg'd away in a trice." Pages 106-109, several references to sycophant and figs. "Fig, a pleasant fruit and nothing more sweet"; "Dioscorides, such fruit corrupts blood"; "What an excellent veine both popes have in figging each other away and Jesuites too (as the priests relate) in dispatching with such pleasant pilles, any that stand in their way or light."

## Barnes, James

1862. The fig. Florist and Pomol. 1:23-24. See also: pp. 60, 78. Short account of culture.

## Barron, A. F.

1868. Fig culture. Gard. Chron. 28:6, 51, 125, 210, 544. History, culture, fruiting, caprification, growing in pots (2 figures), pests, varieties.

1869a. Pot cultivation of the fig. Jour. Hort. and Cottage Gard. 17:93, 94. Good article.

1869b. The pot culture of figs. Florist and Pomol. 2:53-56. Pots as small as 5 in.; largest that need be used are 12 in.

1891. Figs and their culture at Chiswick. Roy. Hort. Soc. Jour. 13:122-34. Also in: Garden 39:575-78. Good general account.

Baxter, Wm.

1820. An account of the fig tree, planted in 1648 and now growing in Garden of Christ Church, Oxford. Roy. Hort. Soc. Trans. 3:433-35. History and general account; tree of White Marseilles.

Bean, W. J.

1925. Trees and shrubs hardy in the British Isles. 2 vols. (4th ed.) John Murray, London. (Fig, 1:555-56.) Short; botany, culture, caprification.

Beeton, Samuel O.

1871. Beeton's all about gardening. 389 pp. Ward, Lock & Co., London. (Figs, p. 129.) Culture in open air and under glass; brief.

Bentley, Robert, and Henry Trimen

1880. Medicinal plants. Fls. by David Blair. 4 vols. London. (Ficus carica, 4(228). Color pl. 6 pages of text.) Description, habitat, characters, composition, medical properties and uses.

Bernard, Mrs. William B.

1886. Our common fruits. 294 pp. F. Warne, London. (The fig, pp. 233-51.) Crude colored frontispiece of fig fruit. Legends, history, fruit, flowers, caprification, uses, medicinal properties.

Bewley, W. F.

1950. Commercial glasshouse crops. 508 pp. Country Life, London. (Figs included.)

Blackwell, Elizabeth

- 1739-1751. A curious herbal. 2 vols. 500 color pls. J. Nourse, London. (Fig tree, 1:color plate 125, also description.)

Eliss, George

1841. The fruit grower's instructor. 312 pp. J. Ridgway, London. (Fig, pp. 109-11.) 1825 ed. 149 pp. (Fig varieties, pp. 131-33.)

Botfield, Beriah

1841. Manners and household expenses in England in the thirteenth and fifteenth centuries. 621 pp. William Nicol, London. No index. In 18th year of Edward I, the Queen bought out of a cargo of Spanish ship, one frail of figs.

Boulger, G. S.

1889. The uses of plants. 224 pp. Roper and Drowley, London. (Fig, pp. 12, 21, 55.) Short, general.

Brace, Josh

1904. Culture of fruit trees in pots. 122 pp. John Murray, London. (Fig, pp. 75-77.) 1919 ed. 110 pp. Varieties and directions for culture.

Bradley, Henry

1901. A new English dictionary on historical principles. Ed. by James A. H. Murray. 10 vols. Clarendon Press, Oxford. Vol. 4, Part 1, by Henry Bradley. (Fig, 4:200.) Good for cross references.

Bradley, Richard

1721. A philosophical account of the works of nature. 194 pp. W. Mears, London. (Fig, pp. 25, 185-86.) Refers to flowers of fig illustrated by Royal Acad., Paris, 1712; at least 50 different sorts of figs in France.
1727. Ten practical discourses concerning earth and water as they relate to the growth of plants. 195 pp. J. Cluer and A. Campbell, Westminster. (Fig, pp. 117, 151-53.) Instructions for pruning and care of trees; prefers dwarf or standard trees to those on walls; sometimes ripen two crops in a summer.
1728. Dictionarum botanicum, or a botanical dictionary, for the use of the curious in husbandry and gardening. 2 vols. Unnumbered pages. T. Woodward, London. (Fig, Vol. 1.) A fruit very little regarded in England; reasons given; short account.
1731. New improvements of planting and gardening. (6th ed.) 608 pp. Knapton, London. (The fig, p. 189.) Fig grown from suckers or layers and from seed.
1757. A general treatise of agriculture, both philosophical and practical. 503 pp. W. Johnston, London. (Fig, pp. 270-73, 281-86.) Short account of fruit and flowers; refers to Jean Merlet (1740), Paris, on fig varieties.

Britten, James, and Robert Holland

- 1878-1886. A dictionary of English plant names. English Dialect. Soc., Trübner & Co., London. Vols. 22, 26, and 45 of Society Publ. (Figer tree, p. 182; fygere, p. 197; lemfig, a doe-fig, p. 303; lont-figs, or dried figs, p. 313.)

Brotherston, R. P.

1910. The garden of Richard Neckham. Gard. Chron. (3d ser.) 47: 273. (Figs.) "A really fine garden will supply you with fruit,---here our eyebrows go up, and figs."



## Browning, Robert

1895. Complete poetic and dramatic works of Robert Browning. 1033 pp. Houghton, Mifflin and Co., Boston. In: Ferishtah's fancies, The Sun, line 31, "I eat a palatable fig"; line 57, "lauds the gardener for the fig his gift"; line 68, "I thanked the gardener for his fig". In: M. Shah, p. 936, last line, "Try a fig-plaster: may it ease thy pangs". In: Fra Lippo Lippi, p. 343, line 85, "I starved there, God knows how, a year or two, on fig skins, melon parings,...". In: James Lee's Wife, pages 373-76, "Our fig-tree, that leaned for the saltness  
has furl'd  
Her five fingers,  
Each leaf like a hand opened wide to the  
world  
Where there lingers  
No glint of the gold, Summer sent for  
her sake."

## Bullock, Arthur

1931. Hardy fruit garden. Gard. Chron. (3d ser.) 90:128, 425.  
Notes on fig culture in the open.

## Bunyard, E. A.

- 1920-1925. A handbook of hardy fruits more commonly grown in Great Britain. 2 vols. John Murray, London. (Fig, 2:162-65.)
1934. Cultivation of the fig. Roy. Hort. Soc. Jour. 59:61-67. Figures 30-33. History, habit of fruiting, soil, culture in pots, winter protection, four varieties recommended and figured.

## Bunyard, George

1899. Fruit farming for profit. 173 pp. W. S. Vivish, Maidstone. (Fig, p. 98.) Figs are like tomatoes and oysters, a taste for them has to be acquired; short account, partly quoted from the Garden, May 10, 1890.

## Burbidge, F. W.

1877. Cultivated plants: their propagation and improvement. 618 pp. Wm. Blackwood and Sons, London. (Fig, pp. 86, 397, 582. Illus.) Account of hybridizing figs.

## Bush, F. A.

1938. Hardy fruit garden. Gard. Chron. (3d ser.) 103:140. See also: 104:112, 384; 105:5, 148; 107:18; 108:50, 224.  
Notes on culture.
1941. Fruit garden. Gard. Chron. (3d ser.) 109:133-34. Cultural instructions.

## Bush, Raymond

1942. Soft fruit growing. 173 pp. Wyman and Sons, London. (Fig, pp. 69-73.) Short; aspect, soil, propagation, culture, winter protection; four varieties briefly described.

1947. Harvesting and storing garden fruit. 162 pp. Faber and Faber, London. (Figs, p. 76.) White Marseilles early, in August; Brown Turkey and Brunswick mid-season; Bourjassote Grise, late, in September.

1947. Fruit growing outdoors. 518 pp. Faber and Faber, London. (The fig, ch. 8, pp. 387-91. Figure 73.) Fig may be said to "grow by courtesy" in England; article includes aspect, soil, propagation, training and pruning, fruiting, barrenness, winter protection; varieties four, Black Ischia, Brown Turkey, White Marseilles and Brunswick.

## C., A. B.

1870. The fig and its culture. Jour. Hort. and Cottage Gard. 18:107, 162, 205, 245, 302, 386; 19:106. Detailed account of culture in ground and in pots; illustrated.

## C., H. H.

1932. Figs. Gard. Chron. (3d ser.) 91:226. Short account of culture.

## Campbell, A. S.

1938. Guernsey, the friendly island. Natl. Geog. Mag. 73:361-96. Illus. (Figs under glass, p. 391.)

## Carpenter, William B.

1873. Vegetable physiology and systematic botany. Ed. by Edwin Lankester. 606 pp. Bell and Daldy, London. (Fig, pp. 284, 469-71.)

## Cecil, Evelyn (Alicia Amherst)

1910. A history of gardening in England. 394 pp. (3d ed.) E. P. Dutton & Co., New York. (Fig, pp. 38, 47, 161, 162, 221-22.) Early history.

## Chaucer, Geoffrey

1903. The works of Geoffrey Chaucer. The Globe edition. 772 pp. Macmillan and Co., London. See specifically: The romaunt of the rose. (Fig, p. 678, line 1718, "was standing by a fige tree"; p. 674, "fyges and many a date tree there wexen.")

## Chittenden, F. J.

1939. Henry Wise and the Royal Gardens in Queen Anne's time. Roy. Hort. Soc. Jour. 64:464-79. (Figs, p. 477.) A catalog of wall fruits as they are numbered in 1708; list only.

## [Clarke, Stephen]

1822. *Hortus anglicus, or the modern English garden*. 2 vols.  
F. C. and J. Rivington, London. (Fig, 2:575-76.) Brief,  
general account.

## Cobbett, William

1804. An epitome of Mr. Forsyth's treatise on the culture and  
management of fruit trees, by an American Farmer, William  
Cobbett. 186 pp. Wm. Poyntell and Co., Philadelphia.  
(Figs, pp. 40-45, 142, 143.) Culture, covering trees.

## Coeur de Lion, Richard (1235)

1810. In: Henry Weber: *Metrical romances*. Vol. 2, lines 1548-50.  
"Off froyt here is gret plente!  
Fyggys, raysyns, in frayel,  
And notes may serve us fol wel."

## Coleman, W.

1882. Figs on walls and for forcing. *Garden* 21:199. Illustra-  
tion of potted plant of Osborn's Prolific; cultural notes  
and varieties.

## Coles, William

1657. *Adam in Eden or Nature's paradise*. 626 pp. J. Streater  
for N. Brooke, London. (Fig, chap. 74, pp. 139-41.)  
Names, kinds, climate, virtues and uses.

## Comber, James

1934. Figs for the open air. *Gard. Chron.* (3d ser.) 96:252.  
General notes on culture.

## Commonwealth Economic Committee

1953. *Fruit*. A summary of figures of production and trade re-  
lating to fresh, canned and dried fruit and wine. 160 pp.  
Issued annually by Commonwealth Econ. Com., England.  
(Figs included.)

## Cook, Ernest T.

1914. *Gardening for beginners*. 650 pp. George Newnes, London.  
6th ed. by F. W. Harvey, "Country Life," etc. (Figs, pp.  
469-71.)

## Cook, Henry H.

1932. Hardy fruit garden. *Gard. Chron.* (3d ser.) 92:39. See  
also: 95:108, 402; 98:242, 418; 101:182; 102:138.  
Short notes on fig culture.
1942. The fig. *Gard. Chron.* (3d ser.) 111:127, 230. Short ac-  
count of culture. See also: vols. 116, 123, 124, 125,  
126, 131, 132.

Cook, L. J.

1925. The fig. Garden 89:36. Short; culture and varieties.

Cooke, Samuel

1769. The compleat English gardener, or gardening made perfectly easy. 156 pp. J. Cooke, London. (Figs, see index.)

Coomber, Thomas

1894. Notes on fig culture. Gard. Chron. (3d ser.) 15:432-33. Pot culture; soil, training, forcing.

Cooper, C. S., and W. P. Westell

1909. Trees and shrubs of the British Isles native and acclimated. 2 vols. J. M. Dent and Co., London. (*Ficus carica*, 1, color pl 2, figure 1; 2:141-42, pl. 52.)

Copley, G. H.

1946. Fruit growing. 130 pp. John Crowther, London. (Fig, pp. 124-26. 1 illus.) Short; planting, culture, pests.

Cotton, Charles

1715. The planter's manual. 384 pp. In: The genuine works of Charles Cotten. R. Bonwicke, London. (3d ed.) (Fig, p. 384.) Brief, on fig pruning.

Coutts, J., A. Edwards, and A. Osborn

1931. The complete book of gardening. 768 pp. Ward, Lock, and Co., London. (Fig, pp. 669-70, 691.) Short account of soil and situation, pruning, list of varieties, culture in open and in house.

Cox, Euan H. M.

1935. A history of gardening in Scotland. 229 pp. Chatto and Windus for New Flora and Silva, London. (Figs, p. 121.) Mention only.

Crawford, J.

1894. Figs and their culture. Garden 46:132-33. Pot culture under glass; short notes on varieties.

Curtis, Charles H.

1940. Chiswick Gardens. Roy. Hort. Soc. Jour. 65:391-98. (Fig, p. 397.) One very fine span-roofed house contained a complete collection of varieties of figs.

Darwin, Erasmus

1800. Phytologia or the philosophy of agriculture and gardening. 612 pp. J. Johnson, London. (Fig, pp. 415-17, 435.) Quotation from Darwin's Phytologia in: Amer. Farmer 3:372. 1821-22. "Figg trees are liable to shoot out roots at their joints when covered only with a shred of cloth in nailing them to a wall if it be accidentally kept moist."

Davidson, H. C.

1917. Rational fruit culture. 127 pp. "Garden Life" Press, London. (Figs, in the open air, pp. 82-84. Figure 31.) Short account.

Dawson, G.

1866. The old fig trees at St. John's near Ryde. Jour. Hort. and Cottage Gard. 10:89-91.

Deas, Wm.

1832. On the cultivation and management of the fig. Hort. Register 1:385-89.

Denman, J.

- 1902-1903. Outdoor figs in Wales. Roy. Hort. Soc. Jour. 27:124-27. Soil, propagation, pruning, varieties.

Dickens, Charles

- 1846-1848. Dombey and Son. 933 pp. Thomas Nelson and Sons, London. (Fig, p. 285.) "Train up a fig tree in the way it should go and when you are old sit under the shade of it."

Dicks, John

1771. The new gardener's dictionary. 350 pp. G. Keith, London.

Dickson, R. W. (Alexander McDonald, gardener, pseud.)

1807. A complete dictionary of practical gardening. 2 vols. R. Taylor and Co., London. (Fig, 1:3 pages, unnumbered.) Varieties, 14 described; culture according to Forsyth.

Dixon, Edmund (Eugene S. Delamer, pseud.)

1860. The kitchen garden; or, The culture in the open ground of roots, vegetables, herbs and fruits. Routledge, London. (Ficus carica, pp. 150-52.) 184 pp.

Donn, James

1766. Hortus Cantabrigiensis. Catalog of plants indigenous and foreign cultivated in the Walkerian botanic garden, Cambridge. (9th ed.) 355 pp. London. 1819. (Ficus carica, p. 329.) Listed only.

Douglas, J.

1872. Pot culture of figs. Jour. Hort. and Cottage Gard. 22:247.

Drury, W. D.

1900. The book of gardening; a handbook of horticulture. 1198 pp. L. Upcott Gill, London. (Figs, pp. 999-1003. Figure 652.) Varieties for outdoor culture and under glass.



Ducarel, Andrew

1790. History and antiquities of Lambeth palace. Vol. 2:1-72. In: John Nichols Bibl. Topographica Britannica. Illus. (Fig, pp. 77-78. Pl. 8.) Account of two White Marseilles trees grown on wall; cover a surface of 50 feet in height and 40 in breadth; history; other old trees at Mitcham in Surrey, and at Winchester.

Dyer, Thomas F. T.

1876. British popular customs present and past. 520 pp. George Bell and Son, London. (Fig, pp. 15, 119, 128, 133, 153.) Fig Sunday, fig pies, fig pie wake, fig sue recipe.

Earle, John

1880. English plant names from the tenth to the fifteenth century. 122 pp. Clarendon Press, Oxford. (Ficus, fic-wyrt, p. 13; hec ficus, fyke-tre, vel fructus, p. 53; hic ficus, fyke, p. 55; fig-treow, p. 39; Ficus carica, fic-appel, p. 18.)

Earle, Maria T.

1899. More pot-pourri from a Surrey garden. 463 pp. Macmillan and Co., London. (Fig, p. 128.) Dried figs received from southern France, better than usual lots.

Elliot, Clarence

1936. Outdoor figs. Gard. Chron. (3d ser.) 100:183. Recommends mulching and heavy watering of trees.

1953. Figs. Illus. Lond. News 222:88. Jan.

Elliot, G. F. S.

1907. The romance of plant life; interesting descriptions of the strange and curious in the plant world. 380 pp. Seeley, London. (Fig, pp. 79-80, 251.)

Ellis, E. T. (editor)

1921. Black's gardening dictionary. 1238 pp. A. and C. Black, London. (Fig, pp. 319-20.) Forcing, by F. Jordan; outdoor culture, by George Bunyard.

Errington, Robert

1844. Barrenness in the fig. Gard. Chron. 4:147. Due to over luxuriance of growth; suggestion as to soil.

Evelyn, John

1706. Silva: or a discourse of forest trees and Kalendarium Hortense. 329 pp. R. Scott, London. (Fig, pp. 260, 273.) Mentioned several times in Kalendar of monthly operations. Varieties.

F.

1876. The fig tree. Gard. Chron. (n.s.) 6:80. Biblical references; trees common in walled gardens near London.

F., J.

1923. Fig trees at Lambeth Palace. Gard. Chron. (3d ser.) 74:381. Short history.

Fairbairn, George

1870. Pot culture of the fig. Floral World and Garden Guide (2d ser.) 5:42-44.

Fairchild, Thomas

1722. The city gardener. 70 pp. T. Woodward, London. (Fig, pp. 19, 51, 52, 53.)

Fairford, Ford

1926. Fruit and the fruit trade. 153 pp. Isaac Pitman and Sons, London. (Fig, pp. 91-96. Illus.) Culture in Europe and United States, uses, popular account.

Figuier, Louis

1869. The vegetable world, being a history of plants with their botanical descriptions and peculiar properties. 556 pp. Cassell, Potter, and Galpin, London. (Fig, p. 324.) Short, general.

Fish, D. T.

1876. Forcing figs. Garden 10:367. Culture, propagation, and varieties.
1880. Coddling of out-of-door figs. Gard. Chron. (n.s.) 14:309. Winter protection or coddling of trees and overfeeding of roots great causes of failure of fig in open air.
1889. Figs in the open air in the east of England. Gard. Chron. (3d ser.) 5:10. Chief conditions for success in fig culture in the open are a dry base, firm soil, and natural treatment, not coddling.

Fish, D. T., et al.

1871. Fig culture in the open air. Gard. Chron. 31:1617. Figure 344. Comments by various gardeners on pruning.

Fish, R.

1864. Fig tree throwing its fruit. Jour. Hort. (n.s.) 7:131. Suggestions on culture.

Fleming, J.

1876. Pine-stoves versus fig culture. Florist and Pomol. (3d ser.) 9:109, 127. See also: p. 240. Plants taken out of pots in October; ball of roots pruned; pot washed and plant put back with fresh soil.

Flückiger, F. A., and Daniel Hanbury

1879. *Pharmacographia: a history of the principal drugs of vegetable origin*. 803 pp. (2d ed.) Macmillan and Co., London. (The fig, pp. 542-44.) Botanical origin, history, description, microscopic structure, composition, production and commerce, uses.

Forbes, James

1833. *Hortus Woburnensis*. 440 pp. James Ridgway, London. (Fig, pp. 373-75.) Abstracted in: *Hort. Register* 3:247, 248.  
1834. *Short account of forcing figs indoors*.

Forsyth, Alex

1882. The fig tree. *Florist and Pomol.* 1882:104. "Wherever the Jew or the Gentile have set foot the Fig-tree will be found." Notes on culture in England.

Forsyth, William

1803. A treatise on the culture and management of fruit trees. 523 pp. Longman, London. (Fig, pp. 97-102.) American ed. 280 pp. D. & S. Whiting, Albany. Varieties, culture, winter protection. 1818 ed. (Figs, pp. 191-200.)

Fraser, William, et al.

1856. Fig-pie Wake. Notes and Queries (2d ser.) I:227, 322. Kept in Staffordshire on mid-lent Sunday. Pies made of dry figs, sugar, treacle, spice, etc., "rather too luscious for those who are not to the manor born."

Fruit grower

1936. Out door figs. *Gard. Chron.* (3d ser.) 100:133, 147. General culture; varieties.

G.

1872. The Sussex standard fig trees. *Jour. Hort. and Cottage Gard.* 23:269.

G., P.

1889. Figs. *Gard. Chron.* (3d ser.) 5:469. Brown Turkey best variety; Brunswick also excellent; notes on culture.

Genders, R.

1954. Fruit culture all the year around. 246 pp. Faber, London. (Figs, pp. 123-26.)

Gerrard, J.

1951. Fruits under glass. *Gard. Chron.* (3d ser.) 129:19, 131. Short suggestions for figs in pots.

Gibson, John

1768. The fruit gardener. 411 pp. G. Nourse, London. (Fig trees, pp. 369-70.)

Gill, N. T.

1939. The origins of our garden crops. Gard. Chron. 105:57, 268, 356, 390, 406. (The fig, p. 406.) Appears to have originated in southern Arabia.

Glenny, George

1860. The culture of fruits and vegetables. 380 pp. Houlston and Wright, London. (Fig, pp. 203-14.) Culture on walls, in pots, under glass, propagation; general observations.

Gordon, James

1774. The planters, florists and gardeners pocket-dictionary. 334 pp. D. Fleming and A. Neill, Edinburgh. (Fig, pp. 135-36.) Varieties listed only; propagation and culture.

Gras, N. S. B.

1918. The early English customs system. 766 pp. Harvard Univ. Press, Cambridge. (Figs, pp. 346, 549, 624. See index under Ficus.) Figs mentioned among the other imports.

Green, Donald E.

1951. In: Dictionary of gardening. Ed. by F. J. Chittenden. 4 vols. Clarendon Press, Oxford. (Fig, 2:820-22.) General account; history, culture, varieties, diseases. Caprification, p. 386.

Green, Thomas

1824. The universal herbal. (2d ed.) 790 pp. Caxton Press, London. (The common fig, pp. 562-66.) Short description, history, list of 14 varieties, culture, caprification (after Tournefort, 1741, Voyage into the Levant.)

Grey, William

1834. On the culture of figs. Hort. Register 3:301. Short notes on culture in pots and under glass; house built expressly for figs on place of Sir Charles Monck, Belsay Castle.

Grieve, Mrs. Maud

1931. A modern herbal. 2 vols. Jonathan Cape, London. (Fig, 1:311-13.) Habitat, description, culture, constituents of fruit, uses, medicinal properties.

Griffiths, A. B.

1908. Manures for fruit and other trees. 264 pp. R. Sutton, London. (Fig trees, pp. 28, 62, 187.) Soils and manures for fig tree; ash of fig wood.

Grindon, L. H.

1885. Fruits and fruit trees. 328 pp. Palmer and Howe, Manchester. (Fig, pp. 228-35.) History, distribution, imports, botany.

Groom, James

1876. Figs on open walls. Garden 10:235. Good bearing fig trees over 100 years old; like vines these may be considered young.

Grose, Francis

- 1773-1787. The antiquities of England and Wales. 6 vols. S. Hooper, London. (Fig, 3, reverse of leaf 85. Pl. 2.) Historical account of fig trees at Lambeth Palace and elsewhere.

Gurie, Albert

- Hardy fruit cultivation. 93 pp. News Chronicle, London. (Figs, pp. 64-5.) Short account.

H., I. M.

1892. Pot culture of figs. Garden 41:333. Detailed cultural instructions; varieties; illustrations of four varieties.

H., J. H.

1857. The fig tree. Gard. Chron. 17:21-22. Interesting observations on fruiting behavior; concludes that fig tree, unlike any other, is independent of a state of rest; may be kept continuously productive.

Haggard, H. Rider

1906. Rural England: being an account of agriculture and social researches carried out in the years 1901 and 1902. 2 vols. Longmans, Green & Co., London. (Fig, 1:75.) Glass house No. 1 contained fig trees planted in the ground; in Guernsey.

Haldane, R. C.

1885. Subtropical cultivations and climates; a handy book for planters, colonists and settlers. 308 pp. W. Blackwood, Edinburgh. (*Ficus carica*, pp. 69-74. Figures 6, 7.) General account; "much has been written in favour of caprification,--but the process is going out of use, and seems to be quite unnecessary".

Haliburton, Thomas C.

1852. The clockmaker; or the sayings and doings of Samuel Slick of Slickville. 3 vols. R. Bentley, London. (Fig, p. 187.) "How are you off for tobacco?" said Mr. Slick. "Grand" said he, "got half a fig left yet."

Hallett, G. F.

1941. Fruits under glass. Gard. Chron. (3d ser.) 109:23, 33, 85, 139, 201, 209, 246. Culture of figs; succession of varieties. See also further notes in vols. 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120.



## Hanbury, William

- 1770-1771. A complete body of planting and gardening. 2 vols. Published by the author, London. (*Ficus carica*, 2:774-76.) Short descriptions of 20 varieties; general account of culture in the open.

## Harrison, Charles

1823. A treatise on the culture and management of fruit trees. 356 pp. Published by the author, London. (Fig, pp. 292-97.)

## Hartlib, Samuel

1652. Samuel Hartlib his legacie; or, an enlargement of the discourse of husbandry used in Brabant and Flaunders. 131 pp. H. Hills for R. Wodenothe, London. (Fig, see appendix, no paging. In: An interrogatory relating more particularly to the husbandry of Ireland.) "Fig trees, where any grow, in whose gardens, whether at any time they beare any fruit, or any at all?"

## Harvey, N. P. (Ed.)

1949. Fruit-growing for amateurs. 128 pp. Plant Protection, Ltd., London. (Fig, pp. 121-23.)

## Hawks, Ellison

1928. Pioneers of plant study. 275 pp. Macmillan and Co., London. (Fig, pp. 18, 26, 32, 33, 47, 59, 100.) A garbled account of *Blastophaga*; refers to capitularies of Charlemagne; quotes Herodotus about Assyria showing no fig trees.

## Hayes, F. C.

1901. A handy book of horticulture. 225 pp. John Murray, London. (Fig, pp. 111, 134.) Brief, culture.

## Hayward, Joseph

1824. The science of horticulture. 275 pp. (2d ed.) Longman, Hurst, Rees, Orme, Brown and Green, London. (On figs, pp. 196-201.)

## Hazlitt, W. Carew

1887. Gleanings in old garden literature. 263 pp. Elliot Stock, London. (Fig, p. 184.) Quoted from Sir. Wm. Temple, Gardens of Epicurus, 1914.

## Hemsley, W. B.

1873. Handbook of hardy trees, shrubs and herbaceous plants, based on the French work of Decaisne and Naudin. 687 pp. American ed. Estes & Lauriat, Boston. (Fig, p. 402.) Fig appears to flourish no where so well as in the chalky districts of South England.

1883. The common fig tree. Gard. Chron. 19(n.s.):529, 572. Review of publication by Solms-Laubach, 1882, on history, domestication, and spread of the fig tree.
1883. Why figs cast their fruit! Gard. Chron. 20(n.s.):22, 23. Interesting discussion of fig flowers, no fig seedling originated in England; many good references.
1886. Concerning figs. Gard. Chron. (2d ser.) 25:265-66. Mostly about species other than Ficus carica.
- Henslow, Thomas G. W.  
1923. Garden development. 352 pp. Dean and Son, London. (Figs, p. 327.) Short descriptions of 16 varieties; brief notes on culture.
- Hereman, Samuel  
1862. A handbook of vine and fruit tree cultivation as adapted to Sir Joseph Paxton's patent hothouses. 55 pp. Bradbury and Evans, London. (Figs, pp. 34, 46.) Culture, selection of varieties.
- Heresbach, Konrad  
1601. Foure bookes of husbandry collected by M. Conradus Heresbachius, newly enlarged and encreased by Barnaby Googe. 183 pp. Tho. Wight, London. (Figge tree, p. 102b.) Short; refers to Theophrastus.
1631. Whole art of husbandry. Transl. by B. Googe, corrected, enlarged and adorned by G. Markham. 385 pp. T. C. for R. More, London. Plant "against the south side the almond and the figge tree."
- Hill, John  
1751. A history of plants. 642 pp. Osborne, London. (Fig, p. 134.) Gives location of both male and female flowers; refers to Tournefort on caprification that ripening of figs is due to the supply of male "farina."
1758. The gardener's new Kalendar. 428 pp. T. Osborne, London. (Fig, see pp. 95, 124, 144, 160, 191, 360.) Cultural directions.
- Hitt, Thomas  
1755. Treatise of fruit trees. London. (Fig, pp. 9, 63, 213, 225, 302.) Notes on six sorts or varieties, p. 302. (3d ed.) 394 pp. Robinson and Roberts, London. 1768.
- Hoare, Arthur H.  
1948. Fruit culture. 347 pp. Thomas Nelson and Sons, London. (Fig, pp. 283-85.)

## Hobday, Edward

1872. Open air fig culture. Gard. Chron. 32:12. See also: p. 45. Failure due to excessive vigor of growth and too free use of pruning knife.
1881. The fig; culture for profit. Garden 19:106-7. Preparation for border trees, propagation, pruning.

## Hogg, Robert

1858. The vegetable kingdom and its products. 882 pp. Kent and Co., London. (*Ficus carica*, pp. 676-77.) Short; general account of the fruit, flowers, caprification.

## Holland, J. H.

1937. Overseas plant products. 279 pp. John Bale Sons and Curnow, London. (Figs, p. 60.)

## Hollingshead, R. S.

1928. Market for dried fruit in the United Kingdom. U. S. Dept. Com. Bur. For. and Dom. Commerce Trade Inf. Bul. 592: 1-14. (Figs and fig cake, p. 11.)

## Hone, William

1832. The year book of daily recreation and information. 1645 pp. Wm. Tegg and Co., London. (Fico, p. 1086; Lambeth fig tree, p. 918.) Explanation of the insulting gesture, "the fico"; visit to Lambeth palace to see fig tree.

## Houghton, John

1727. Husbandry and trade improved. Revised by R. Bradley. 4 vols. Woodman and Lyon, London. (Fig, 1:166; 3:6, 7; 4:165.

## Hudson, James

1901. Figs in pots. Roy. Hort. Soc. Jour. 25:231-34. Early and late forcing, soil, potting, watering, varieties.
1911. Culture of the fig in pots. Gard. Chron. (3d ser.) 50:343. Summary of lecture.

## Hughes, Miss Hilary

1951. Fruit cultivation for amateurs. 477 pp. W. H. and L. Collingridge, London. (Fig, pp. 274-80, 446, 449.)

## Huloet, Richard

1552. Abcedarium Anglico Latinum. Figge-gatherer-ficetor. Cited by Henry Bradley, 1901.

## Iggulden, W.

1891. Where figs succeed. Garden 39:379. Culture, selection of varieties, sites and soils.

Jackson, Benjamin D.

1876. A catalogue of plants cultivated in the garden of John Gerard in the years 1596-1599. 64 pp. Privately printed, London. (Fig, pp. 30, 34.) "Chamaeficus, dwarfe fig tree, fruited abundantly each year; Ficus de Algarua, fig of that part of Spain called Algarua."

Jackson, J. R.

1867. On the genus Ficus. Intell. Observ. 10:112-18. 1 pl. Popular account of F. carica.

Johnson, George W.

1829. A history of English gardening. 445 pp. Baldwin and Cradock, London. (Fig, see index.) Fig introduced by Romans about 278 A.D. Refers to Matthew Paris who stated that in 1257 various fruits including figs were "almost quite destroyed" by seasonal weather.

Jordan, F.

1924. Indoor figs in borders. Gard. Chron. (3d ser.) 75:82. General culture.

1931. Fruits under glass. Gard. Chron. (3d ser.) 89:64, 160, 274, 386; 90:64, 84, 168, 248, 344, 424. Notes on culture of figs.

1935. Figs in pots. Gard. Chron. (3d ser.) 98:198. Culture.

Keeble, F. W., and A. N. Rawes

1936. Hardy fruit growing. 334 pp. Macmillan and Co., London. (Fig, pp. 78, 91, 123, 133, 135, 288-91.) Soil and situation; varieties listed only; pollination, culture, pests and diseases.

Kessler, J. L.

1937. Market fruits and their varieties. Pp. 99-151. In: Fruit annual and directory, H. F. Tysser, ed. Continental Press, London. (Fig, pp. 114-15.) Fresh figs sent to England from France, Guernsey and So. Africa. Varieties listed and described.

Knight, A. E., and E. Step

1913. Popular botany, the living plant from seed to fruit. 2 vols. H. Holt and Co., New York. (Fig, pp. 61, 388, 397.) Crude illus. of fruit; odor attracts fig wasp to the fruit; description of caprification after Kenner; cystoliths described.

Knight, Charles

1829. Vegetable substances used in the arts. 422 pp. Longman, Rees, Orme, Brown, and Breen, London. (Fig, pp. 242-50.) History; popular account.

1867. Natural history or second division of "The English encyclopedia." 4 vols. Bradbury, Evans and Co., London. (Fig, 2:810.)

Knight, Thomas A.

1820. On training the fig tree. Roy. Hort. Soc. Trans. 3:307-9. "A trained fig tree never bears fruit"; suggests branches be grown horizontally and pendantsly.

1822. Upon the culture of the fig tree in the stove. Roy. Hort. Soc. Trans. 4:200-2. Details of growing fig trees in pots; pruning.

1825. An account of a method of obtaining very early crops of the grape and fig. Roy. Hort. Soc. Trans. 6:232-34. Trees taken from "stove" in May or June, placed under a cool north wall until Sept., then again put in stove; ripened fruit in January or February.

1842. On the cultivation of figs. Roy. Hort. Soc. Trans. (2d ser.) 2:165-67. Ultimately succeeded in fruiting the Nerii fig one of the best of Italy; method described; spring crop dropped.

Langford, T.

1681. Plain or full instructions to raise all sorts of fruit trees that prosper in England. 148 pp. J. M. for R. Chiswel, London. (Fig, pp. 117, 136.) Very short account.

Langley, Batty

1728. New principles of gardening. 207 and 191 pp. A. Bettesworth and J. Batley, London. (Fig, pp. 40, 55, 72-76.) Varieties, native place and names, culture.

1729. Pomona: or, The fruit garden illustrated. 150 pp., plus 79 color plates. G. Strahan, London. (Fig, pp. 2, 33, 34, 72, 82. Pls. 9, 52, 54.)

Laurence, John

1726. A new system of agriculture being a complete body of husbandry and gardening. 456 pp. T. Woodward, London. (Fig, pp. 292, 304-5.) Plant fig trees in angles of walls; good rule, nip off extremity of a young vigorous shoot in June for this will increase the number of summer shoots.

Lawrence, D. H.

1939. Poems. 3 vols. Wm. Heinemann, London. (Proper way to eat a fig, in society, 2:285-89; bare fig trees, p. 304.)

Lawrence, John

1717. The clergyman's recreation, or The pleasure and profit of gardening. 115 pp. (5th ed.) B. Lintott, London. (Fig, p. 52.)



## Lawson, Peter

1866. The pomologist's manual. 188 pp. Peter Lawson, Edinburgh. (Fig, pp. 142-47.)

## Lindley, George

1831. A guide to the orchard and fruit garden. 601 pp. Longman, Rees, Orme, Brown, and Green, London. (Figs, pp. 162-73.) Varieties, propagation, culture. Ed. of 1833. With additions of the most valuable American fruits by Michael Floy. 408 pp. Collins and Hannay, New York. (Fig, pp. 109-14.) Variety descriptions.

## Lindley, John

1834. Botany. 222 pp. (Constituting Sect. 2 of Vol. 4 of: Natural Philosophy, Library of Useful Knowledge.) London. (Fig, p. 107.) Concluded that ancients had no real knowledge of plant fertilization, but merely drew an analogy from animals. Caprification discussed.

- 1834-1837. Ladies botany: or a familiar introduction to the study of the natural system of botany. 2 vols. James Ridgway & Sons, London. (Fig, 1:152-53.) Short, popular; fig and nettle compared.

1848. Notes made in the garden of the Horticultural Society upon the rate of growth by plants at different periods of the day. Roy. Hort. Soc. Trans. (2d ser.) 3:103-13, 247-59. Concludes as to fig growth: "some agent, distinct from heat, light, or moisture is in operation, the nature of which we have at present no means of ascertaining."

1853. The vegetable kingdom. (3d ed.) 908 pp. Bradbury and Evans, London. (Ficus carica, p. 267. Figure 182.) Mention only; Ficus in general.

1855. The theory and practice of horticulture. 622 pp. Longman, London. (Fig, pp. 363, 381.) If the late figs which never ripen are abstracted, the early figs the next year are more numerous and larger.

1858. School botany; or, the rudiments of botanical science. A new ed. 164 pp. Bradbury and Evans, London. (Fig, p. 116.) Brief; one figure.

## Lindores, T.

1935. Fruits under glass. Gard. Chron. (3d ser.) 97:22, 122, 220, 318, 374. See also: vols. 98, 99, 100, 101 for further notes on culture of figs.

## Longus

1923. *Daphnis and Chloe* by Longus. Transl. out of the Greek by George Thornley, anno 1657, with an introduction by George Saintsbury. 195 pp. Simpkin, Marshall, London. (Figs, pp. 59, 150.) Brief reference to vines and fig trees.

## Loudon, Jane W.

1842. *Botany for ladies*. 493 pp. John Murray, London. (Fig, pp. 171-72.) Short, popular.

## Loudon, John C.

1832. *Loudon's Hortus Britannicus*. 742 pp. Longman, et al., London. (Fig, p. 416.) Listed only.
1842. *The suburban horticulturist*. 732 pp. Wm. Smith, London. (Fig, pp. 422, 485-87, 598-99.) Culture under glass and in the open; seven varieties described.
1849. *The horticulturist*. 732 pp. W. S. Orr and Co., London. (Fig, pp. 485-87, 598-99.) General; forcing in house, in pots, winter treatment, propagation, culture; seven varieties described.
1854. *Arboretum et fruticetum Britannicum*. 8 vols. H. G. Bohn, London. (Fig and *Ficus*, 3:1365-70; 7:Pl. 229.) History, description, uses, culture in France, caprification.
1855. *Loudon's encyclopaedia of plants*. Ed. by Mrs. Loudon. 1574 pp. Longmans, Green & Co., London. (*Ficus carica*, p. 872. Figures 14, 395.) Brief listing and figures.
1869. *An encyclopedia of gardening*. 1278 pp. Longmans, Green & Co., London. New ed. by Mrs. Loudon. (Fig, pp. 797-98, 967-71. 1 figure.) Good account; history, uses, description of 20 varieties (from George Lindley, 1831), propagation and culture, as standards, on walls, in pots, in forcing houses, winter protection, caprification, oleification. Earlier ed. 1850.

## McEwen, G.

1846. Culture of the fig. *Gard. Chron.* 6:38. Paper read by Mr. Campbell; discussion.

## Macgregor, Jessie

1918. *Gardens of celebrities and celebrated gardens in and around London*. 326 pp. J. B. Lippincott & Co., Philadelphia. (Fig trees, p. 60.) Illus. of fig tree in Courtyard of Lambeth Palace; quotes Tombs "Curiosities of London."

## McIntosh, Charles

1839. The orchard: including the management of wall and standard fruit trees. 420 pp. Wm. S. Orr and Co., London. (Fig, pp. 119-30. Color plate of the Brunswick.) History, varieties, propagation, soil, planting, culture, winter protection, pests, forcing.
1855. The book of the garden. 2 vols. Wm. Blackwood & Sons, Edinburgh. (Figs, 2:551-58.) Good history; propagation, soil, planting, pruning and training, winter protection, accelerating ripening, forcing, varieties.
1856. The new and improved practical gardener and modern horticulturist. 972 pp. T. Kelley, London. (Fig, pp. 447-48.) First ed. 1828.

## MacPherson, David

1805. Annals of commerce. 4 vols. Nichols and Son, London. (Fig, 4:281.) Difficult to adjust damage on imported figs; duty lowered to 10 shillings per cwt.

## Macself, A. J.

1926. The fruit garden. 222 pp. Thornton Butterworth, London. (Fig, pp. 44, 156-59.) Culture, diseases. 1943 ed. Ed. and revised by G. B. Whitehead. 158 pp. Eyre and Spottiswoode, London. (Fig, pp. 27, 108.)

## Maher, J.

1822. On the treatment of standard fig trees in the gardens at Arundel Castle, Sussex. Roy. Hort. Soc. Trans. 4:185-86. Account of rejuvenation of White Marseilles and Violette Bordeaux fig trees; one tree 6 ft. 9 in. circumference at 2 ft. above ground.

## Manning, W. S.

- (?) Hints and encouragements for profitable fruit growing. 111 pp. Jarrold and Sons, London. (Figs, p. 86.) Included under hothouse fruits; short account.

## Markham, Gervase

1660. The English hous-wife. 188 pp. W. Wilson for E. Brewster and Geo. Sawbridge, London. (Fig, p. 52.) Recipe for compounding an "excellent Sallet."

## Markham, H.

1907. Fig culture. Gard. Chron. (3d ser.) 42:310. Short, general.
1926. Figs Brown Turkey and White Marseilles. Gard. Chron. (3d ser.) 79:275. Culture.

Markham, J.

1844. On the cultivation of the fig. Gard. Chron. 4:228.  
Culture on wall and in pots.

Mawe, Thomas, and John Abercrombie

1793. Every man his own gardener. (13th ed.) 626 pp. O. Byrne, Dublin. (Fig, see index.) Ten varieties listed.

Meager, Leonard

1882. The English gardener, or a sure guide to young planters and gardeners. 144 pp. T. Peirrepoint, London. (Figs, pp. 6, 57.) Grow readily from slips or cuttings; to be planted against a house or wall.

Mean, James

1818. On the preservation of fig trees in winter. Roy. Hort. Soc. Trans. 2:228. (Read July 2, 1816.) Trees bent down and buried under two feet of sand.

Melville, Wm.

1865. Fig culture. Florist and Pomol. 4:21, 22. Notes on culture of figs under glass.
1866. Inarching the fig tree to hasten bearing. Florist and Pomol. 5:60, 92. Account of remarkable fig trees on Isle of Wight; largest 4.5 feet circum. of trunk. Fruiting hastened by inarching. Castle Kennedy fig distributed by Lawrence and Sons, Edinburgh.

Miles, George T.

1874. Figs. Gard. Chron. (n.s.) 1:67, 129, 191, 256, 387, 547, 612, 677, 742. Culture under glass.

Miller, J.

- 1770-1777. Illustratio systematis sexualis Linnaei. 104 ff. 108 pls. Published by the author, Londini. (*Ficus carica*, 23. Ord. 3, in color.) A beautiful full-page plate of the fig.

Miller, J.

1871. Forcing the fig. Gard. Chron. 31:274. See also: pp. 1489, 1682. Cultural directions.

Miller, Philip

1730. Catalogus plantarum; a catalogue of trees, shrubs, plants and flowers, both exotic and domestic, which are propagated for sale in the gardens near London. 90 pp. Society of Gardeners, London. (*Ficus*, the figg tree, pp. 31-32.) List of ten varieties with short description of each in Latin.

1731. The gardener's dictionary. Unnumbered pages. Published by the author, London. (Fig, 4 pages.) Account of varieties, culture in open and on walls, pruning, capri-fication, quoted from Tournefort (1741), Voyage into the Levant. Several later editions.
1760. The gardener's kalendar. 417 pp. (12th ed.) Published by the author, London. (Fig, pp. 51, 115, 247, 250, 337.) Cultural instructions.
1763. The abridgment of the gardener's dictionary. (5th ed.) corrected and enlarged. Unnumbered pages. Published by the author, London. (Fig, 3 pages.) Twelve varieties described; culture.
1805. The practical gardener. 679 pp. W. Day and Co. for M. Jones, London. (Fig, pp. 52, 630-31.) Notes on propagation, pruning, winter protection, description of varieties.
1807. The gardener's and botanist's dictionary, by the late Philip Miller, the whole corrected and newly arranged, by Thomas Martyn. 2 vols. in 4. F. C. and J. Rivington, London. (The common fig tree. Two pages under Ficus, Vol. I, part 2.) Short history; description of 14 varieties.

Miller, William

1884. A dictionary of English names of plants applied in England and among English-speaking people to cultivated and wild plants, trees, and shrubs. 264 pp. John Murray, London. (Fig tree. The genus Ficus, p. 45.) Listed are common fig and 12 species.

Molyneux, E.

1915. Out-of-door figs at Penrhyn Castle. Gard. Chron. (3d ser.) 58:260-339. Brief account of Brown Turkey tree; covers wall 14 feet high and 26 yards long.

Monck, C. M. L.

- 1824a. On the effects produced by ringing upon fig trees with observations on their cultivation and propagation. Roy. Hort. Soc. Trans. 5:170-74. Also in: Gill, Techn. Rept. 3:275-79. 1823. (Read Dec. 4, 1821.) Ringing did not prevent fruit drop of figs bearing staminate flowers but did increase fruitfulness of White Marseilles.
- 1824b. Some observations on the fruit of fig trees. Roy. Hort. Soc. Trans. 5:163-69. (Read Feb. 6, 1821.) Notes on Green Ischia, White Marseilles and two other varieties; one kind had anther-bearing flowers and short-styled pistillate flowers; fruits of these never matured.



1835. Upon the cultivation of the fig tree. Roy. Hort. Soc. Trans. (2d ser.) 1:395-98. (Read Feb. 5, 1833.) Further notes on ringing of branches.

Monmouth, Trevor

1900. The book of gardening, a handbook of horticulture. Ed. by W. D. Drury. 1180 pp. L. Upcott Gill, London. (Fig, pp. 999-1003.) Good drainage essential also poor soil; culture under glass; varieties.

Morrison, J.

1849. Culture of the fig. Gard. Chron. 9:70. Suggestions on culture and varieties.

Muffett, Thomas

1655. Health's improvement, corrected and enlarged by C. Bennet. 296 pp. Tho. Newcomb for Samuel Thomson, London. (Figs, pp. 203-204, in Chap. XXII, "Of all orchard fruits".) "Figs are the sweetest fruit of the bitterest tree in the world." Plato called fig-lover; he loved them so much that he died of lice engendered of corrupt blood which the figs made. Excerpts from Plutarch, Pliny, Alexis, Athenaeus, Columella.

Murray, Lady Charlotte

1799. The British garden, a descriptive catalogue of hardy plants indigenous or cultivated in the climate of Great Britain. 2 vols. S. Hazard, Bath. (Ficus carica, 1:65.) Short account.

Neckam, Alexander (1157-1217)

1863. De naturis rerum libri duo. De laudibus divinae sapientiae. Ed. by Thomas Wright. 521 pp. Longman, Green & Co., London. (Fig, p. 483.) Account of sycamore fig; enumerates fig and other fruits.

Neill, Patrick

1832. Fig. In: Edinburgh encyclopedia. 18 vols. J. and F. Parker, Philadelphia. (See 10:574.) Quotes from "Library of Entertaining knowledge" on caprification.
1851. The fruit, flower and kitchen garden. (4th ed.) Henry C. Baird, Philadelphia. (The fig, pp. 89-93.) First ed. Edinburgh, 1838. Variety nomenclature uncertain; cultural directions; refers to other authors.

Nicholson, George

- 1884-1889. The illustrated dictionary of gardening, a practical and scientific encyclopedia of horticulture for gardeners and botanists. 4 vols. L. U. Gill, London. (Ficus carica, 2:13-14. Figures 14-16.) History, distribution, culture, short descriptions of 16 varieties.

Nicol, Walter

1802. The forcing, fruit and kitchen gardener. 427 pp. (3d ed.)  
W. Creech, Edinburgh. (Fig, pp. 67-74, 257.)

Parkinson, John

1629. Paradisi in sole paradisus terrestris. 612 pp. H. Lownes  
and R. Young, London. (The figge tree, pp. 566-67.) Short  
general account.

1640. Theatrum botanicum: the theater of plants, or an herball  
of large extent. 1755 pp. T. Cotes, London. (Figge, pp.  
1492-95. 2 figures.) Describes sycomore, "ordinary figge  
tree, wild figge tree, the blew figge, the dwarfe figge  
tree"; refers to Galen and Mithridates on uses.

Parsons, H.

1947. Fruits under glass. Gard. Chron. (3d ser.) 121:139. See  
also: vols. 122, 123, 124, 125, 126, 127, 128, 129, 132,  
for further notes on culture of figs.

Pateman, T.

1932. Fruits under glass. Gard. Chron. (3d ser.) 91:57, 156,  
196, 234, 360, 458. See also: 92:56, 92, 245, 461; 93:149.  
1933. Notes on fig culture.

Pearson, J. R.

1872. Fig culture. Jour. Hort. 23(n.s.):71. Figs in pots;  
prefers La Madeleine of newer kinds; Bourjassote Grise a  
new name for an old variety grown many years at Clumber  
under the name of Blanche.

Pearson, William

1831. On the cultivation of the fig. Gard. Magazine 7:325-27.  
Also in: Amer. Farmer 13:229. 1831. Brown and Black Ischia  
varieties; directions for culture in Scotland.

Phillips, Henry

1820. Pomarium britannicum. 378 pp. Aliman, London. (Fig, pp.  
157-70.) Also in: Amer. Farmer 4:189-90. 1823. History;  
the fig in England, Greece, France.

1831. The companion for the orchard. 361 pp. H. Colburn and R.  
Bentley, London. (Fig, pp. 149-61.)

Preston, F. G.

1951. The greenhouse. 640 pp. Ward, Lock, and Co., London.  
(The fig, pp. 197-201.) Culture, varieties, diseases and  
pests.

Prior, R. C. A.

1870. On the popular names of British plants. (2d ed.) 290 pp.  
Williams and Norgate, London, (Fig, p. 80.) Listed only.

Rawes, A. N.

- 1925-1927. In: The new book of gardening. Ed. by Walter Brett. 3 vols. George Newnes, London. (Fig, 1:174, 292; 2:199, 358; 3:190, 315. Illus.) Culture on wall, in pots, under glass, winter protection.

R<sup>egel</sup>, E<sup>duard</sup>

1883. Ficus Carica im Gunston-Park im südlichen England. Gartenflora 32:132-33. T. 1118. Reference to account in Gard. Chronicle; illustration of fig tree of doubtful validity.

Reid, Eliza P.

1826. Historical and literary botany. 3 vols. Andrews, Windsor. (Fig, 1:129-47.) Bible references, history, mythology, caprification.

Rhind, William

1877. A history of the vegetable kingdom. 744 pp. Blackie and Sons, London. (Fig, pp. 355-58.) Good, general account; caprification, ancient history, culture.

Richards, J. M.

1941. Fruits under glass. Gard. Chron. (3d ser.) 110:55. Brief notes on figs.

Rivers, Thomas

1866. Fig trees for small gardens. Gard. Chron. 26:146. See also: pp. 244, 292. German method of culture; fig trees with trunks as thick as a man's leg, annually taken up in October and stored in a dark cellar until spring, then replanted.
1866. The miniature fruit garden. 133 pp. From the 13th English ed. Orange Judd and Co., New York. (Fig trees as half standards or bushes, pp. 97-98.)
1867. The orchard house or the cultivation of fruit trees under glass. 221 pp. Longmans, Green, and Co., London. (3th ed.) (Fig, pp. 121-24.) 1860 ed. 58 pp. (Figs, p. 30.) Fig not a general favorite but culture interesting and most simple; short instructions.

Roberts, W.

1890. The Sussex figs and the beccafico. Gard. Chron. (3d ser.) 8:496. Account of the garden at Worthing; the bird, beccafico, Sylvia hortensis.

Rogers, James E. T.

- 1866-1902. A history of agriculture and prices in England. 7 vols. Clarendon Press, Oxford. (Figs, 1:632. 1866. Period 1259-1400; 7:372, 373, 374, 375, 377, 379, 381, 383, 384, 385, 556. 1902. Period 1703-1793; 3:see index; 4:668-71; 5:464; 6:see index.) Numerous references to imports and prices.

Rogers, John

1834. The fruit cultivator. 384 pp. J. Ridgway and Sons, London. (Fig, pp. 173-82.) Brief description of several fig varieties; culture.

Rowlands, Samuel

1613. Humors ordinaire, where a man may be verie merrie and exceeding well used for his sixe-pence. William Firebrand, London. Satyr 1, lines 29-33:

"Then Englishman: experience you may get  
In France and Spaine: where he was never yet  
With a score of figges and half a pint of wine  
Some foure or five will very hugely dine....  
And twenty figges could feede them full and fat."

Rowles, William F.

1916. The food garden. 324 pp. Headley Bros., London. (Fig, pp. 60, 216.) Brown Turkey the only variety listed; culture under glass.

Ruse, C.

1935. Figs in the open. Gard. Chron. (3d ser.) 97:181. Notes on culture.

S., G.

1871. The sexes of figs. Jour. Hort. and Cottage Gard. 20:210.

1874. A good fig. Jour. Hort. and Cottage Gard. 26:161. Refers to Spanish proverb that a good fig should have "the eye of a widow, and the cloak of a beggar." Refers to weeping eye and tattered covering.

S., P. L.

1877. Figs, their culture and commerce. Gard. Chron. (n.s.) 8:492. Culture in eastern countries, France and Portugal; consumption in England; imports.

Sabine, Joseph

1822. On some standard fig trees at Sumpting, near Worthing, in Sussex. Roy. Hort. Soc. Trans. 4:504-7. Southwest Surrey famed for good figs on standard trees; a good account of culture.

1824. On fig trees and their cultivation in a fig-house. Roy. Hort. Soc. Trans. 5:479-83. Varieties really deserving of cultivation, few in number; account of fig house and production of fruit over a period of six months.

1825. Account of a method of forcing figs, practiced in the garden of the Earl of Harwood, at Harwood House in Yorkshire. Roy. Hort. Soc. Trans. 6:365-66. Details of culture in pots; ripe fruit from April to October.

## Salzman, L. F.

1931. English trade in the Middle Ages. 464 pp. Univ. Press, Oxford. (Fig, p. 411.) Quotes Andrew Boorde (1870), The first boke.

## Sanders, T. W.

1908. The encyclopedia of gardening. 466 pp. W. H. and L. Collinridge, London. (13th ed.) (Fig, pp. 165-66.) Culture; brief. Revised by A. J. Macself, 1931; reprinted 1947. (Fig, p. 169.)

1940. Fruit and its cultivation. (5th ed.) 288 pp. W. H. and L. Collinridge, London. (Fig, pp. 68-71, 183.) General account.

## Saul, M.

1854. Culture of the fig in the open air. Florist, Fruitist and Garden Misc. (n.s.) 4:334. Trees of White Marseilles and Brown Turkey; terminal bud pruning described.
1865. Remarks on the outdoor culture of the fig. Florist and Pomol. 4:120-22. Gives six essential points of culture including disbudding, frost protection, production of short-jointed wood of moderate vigor.
1872. Fig culture in the open air. Gard. Chron. 32:326. Experience in Yorkshire, winter protection, culture.
1878. Outdoor culture of figs. Florist and Pomol. 11:104-5. Advises pruning in autumn after leaf fall and terminal bud pruning.

## Sawyer, Samuel

1824. On the management of fig trees in open air. Roy. Hort. Soc. Trans. 5:346-48. Short account of culture and brief descriptions of eight varieties.

## Scott, John

- 187\_. Scott's orchardist, or catalogue of fruits cultivated at Merriott, Somerset. (2d ed.) 608 pp. H. M. Pollett, London. (Figs, pp. 172-78.) Varieties from Dr. Hogg's Fruit Manual, 1866, pp. 102-17; culture.

## Sheppard, J.

1882. Barren fig trees. Gard. Chron. (n.s.) 18:276. Barrenness due to excessive vigor of growth; roots should be confined.

## Shewell-Cooper, W. E.

1938. Up-to-date fruit growing. 296 pp. English Univ. Press, London. (Fig, pp. 115-21.)



1949. Figs in the open. *The Field*, p. 447. 2 figures. Oct. Popular article on figs grown against a wall or as bushes.

Siebeking, Albert F.

1899. *Gardens ancient and modern: an epitome of the literature of garden art.* 423 pp. Dent, and Co., London. (Fig, pp. 3, 9, 25, 30, 67, 90, 152, 320.) Quotations from various authors as Homer, Cato, Longus, Tattius, Neckam, Bacon, Gassendi, Langley.

Simmonds, P. L.

1892. *The commercial dictionary of trade products.* 510 pp. G. Routledge and Sons, London. (Figs and fig cake, p. 152.) Fig cakes, a preparation of figs and almonds; in 1855 upwards of 2200 tons dried figs received in England.

Skeat, W. W.

1910. Early English proverbs chiefly of the 13th and 14th centuries. 147 pp. Clarendon Press, Oxford. (Fig, p. 48, No. 118.) "Fyges wexe"; from *Piers the Ploughman's Creed*.

Smith, James E.

1818. On the cultivation of figs in Scotland. *Caledonia Hort. Soc. Mem.* 2:69-76. (Read June 14, 1814.)

1819-1820. *Ficus*. Fig. *In*: *The cyclopaedia, or, Universal dictionary of arts, sciences and literature*, by Abraham Rees. Longman, Hurst, Rees, Orme, and Brown, London. 39 vols. (*Ficus*, Vol. 14. 13 pages; *F. carica*, 3 pages.) See also: *Caprifigation*. Descriptions of 14 varieties; culture, compiled from William Forsyth, 1803.

1821. *A grammar of botany.* 242 pp. Longman, Hurst, Rees, Orme, and Brown, London. 1822 ed. 284 pp. Seaman, New York. (Fig, p. 43.)

Smith, John

1832. Mr. Pearson's treatise on the fig. *Gardener's Mag.* (London) 8:489. Criticism of article by Pearson. Reply by Pearson, p. 733.

1871. *Domestic botany, an exposition of the structure and classification of plants.* 547 pp. L. Reeve and Co., London. (Fig, p. 227.) Short, general.

1882. *Dictionary of popular names of the plants which furnish the natural and acquired wants of man.* 457 pp. Macmillan and Co., London. (Fig, pp. 172-73.) Short; botany, caprifigation.

## Spence, W.

1846. Sussex fig orchard. Gard. Chron. 6:598. Short account of culture of Brown Turkey fig; also the "Madagascar."  
Also in: Gard. Chron. (3d ser.) 120:110. 1946.

## Spratt, George

- 1829-1830. Flora medica. 2 vols. Callow and Wilson, London.  
(Fig, 2:170-72. Color pl.)

## Stapleton, Robert

1647. Juvenal's sixteen satyrs, or a survey of the manners and actions of mankind. 287 pp. Humphery Moseley, London. (Beccafico, pp. 254, 267.) The ficedula or fig pecker called by the Italians "beccafico" because it feeds most on fig trees, is a bird which at this day the Italians esteem one of the greatest rarities they can put into a bisk or ollio.

## Staward, Richard

1920. Practical hardy fruit culture. 216 pp. Swarthmore Press, London. (Figs, pp. 81-87. 1 figure.) Soil, situation, propagation, culture, protection in winter, pests, four select varieties.

## Stephenson, John, and James M. Churchill

1836. Medical botany. 3 vols. John Churchill, London. (Ficus carica, 3: 4 text pages. Pl. 154 in color.) Botany, history, caprification, properties, uses; plate of green leaves and purple fruit.

## Stevenson, H.

1744. The gentleman gardner's director. (2d ed.) 273 pp. S. Austen, London. (Fig, pp. 79-81.) Short, general, on culture in England.

## Sudell, Richard

1933. The new illustrated gardening encyclopedia. 1152 pp. Charles Scribner's Sons, New York. (Fig, pp. 350-51.) General account, based on England.

## Swayne, George

1822. On the management of the fig tree in the open air. Roy. Hort. Soc. Trans. 4:428-33. Figs on old wood the only crop produced in England; gives experiences from other sources.
1826. Protecting fig trees with newspaper wrapping. Gard. Mag. 1:306.

## Switzer, Stephen

1724. The practical fruit gardener. Revised and recommended by the Revd. Mr. Laurance and Mr. Bradley. 333 pp. Tho. Woodward, London. Chap. 23, pp. 165-70, of the manner of raising, cultivating and pruning of fig-trees. See also: pp. 301-6, on forcing.

## T.

1907. How to grow figs under glass. Garden 71:332. 1 figure. Culture, training the tree, ventilation, thinning the fruit.

## T., J.

1874. The fig. Garden 5:290, 361. Biblical references; cultural instructions; historical notes.

## T., O.

1905. Figs in pots. Gard. Chron. (3d ser.) 38:257-58. Figure 96. Bourjassotte Grise. Principles of culture.

## T., R.

1845. The fig. Gard. Chron. 3:820. Bearing habit, culture.

## Taylor, H. V.

1934. Fruit production; soft fruits. (2d ed.) Great Britain Min. Agr. Bul. 4:1-63. Cultivation of figs in England dates from the 13th century; botany, culture commercially under glass, in the open; five varieties described.

## Temple, James G.

1828. The Scotch forcing gardener. 232 pp. Published by the author, Edinburgh. (Figs, pp. 5, 34, 216, 232.) Culture in a fig-house, forcing, pruning, list of varieties.

## Temple, Sir William

1914. Upon the gardens of Epicurus; or, Of gardening in the year 1684. 3:203-45. In: The works of Sir William Temple, complete in four volumes. F. C. and J. Rivington, London. (Figs, pp. 218-21, 226, 229, 232, 241, 244, 245.) "Italians have agreed my white figs to be as good as any of that sort in Italy;" later blue ones not so good.

## Theobald, F. V.

1913. Commercial gardening. 4 vols. Ed. by John Weathers. Macmillan and Co., London. (The fig, 3:174-78. Figures 377-80.)

## Thomas, Harry H.

1916. Fruit growing for amateurs. 151 pp. Cassell and Co., London. (Fig, pp. 71-73.) Culture in the open and under glass.

## Thomas, Owen

1902. Fig culture out of doors and under glass. *Garden* 61:414-15, 432. 2 figures. Good complete article.
1903. The fig under glass. *Garden* 63:427. 1 figure. List of varieties best for forcing include St. Johns, Brown Turkey and White Marseilles.
1904. The fruit garden. By George Bunyard and Owen Thomas. 507 pp. "Country Life", London. (The fig, chap. 6:51-58. 8 figures by Thomas.) Fig industry centers at Worthing; quotes historical account from "Sussex Industries"; culture outdoors and under glass. Variety descriptions by Bunyard.

## Thompson, Robert

1859. The gardener's assistant. 774 pp. Blackie and Son, London. (Fig, pp. 602, 642-49.) 1925 ed., ed. by William Watson. 6 vols. Gresham Publ. Co., London. (Fig, 3:34-44. Figures 33-41.)
1866. Fig. In: The treasury of botany. Edited by John Lindley and Thomas Moore. In two parts. 1254 pp. Longmans, Green & Co., London. (Fig, part 1:492-93.) Refers to Gasparrini (1845), *Ricerche natura del Caprifico e del fico*, who regarded caprification as useless and injurious.

## Thomson, David

1881. Handybook of fruit culture under glass. 321 pp. Blackwood and Sons, London. (2d ed.) (Fig, pp. 176-206. Figures 18-20.) History after George Lindley, 1831; culture in detail; varieties listed but only briefly described.

## Tomalin, T. E.

1933. Hardy fruit garden. *Gard. Chron.* (3d ser.) 93:185. Notes on fig culture, out of doors and under glass. See also: vols. 94, 95, 96, 101, 102, 103, 104, 105, 106, 107, 108, 117, 118, 119, 120, 121.

## Topsel, Edward

1658. The history of four-footed beasts and serpents....Collected out of the writings of Conradus Gesner and other authors, by Edward Topsel. Whereunto is now added, The Theater of insects...by T. Muffet. The whole revised, corrected and enlarged with the addition of two useful physical tables by John Rowlands, M.D. 2 vols. in 1. E. Cotes for G. Sawbriege, London. (*Culex ficarius*, p. 954.) (Fig, p. 323.) "If a horse having received any hurt, as before said, by nail, bone, splint, or stone, or otherwise in the sole of his foot, and not be well dressed and perfectly cured, there will grow in that place a certain superfluous piece of flesh, like a fig; and it will have little grains in it like a fig, and therefore is rightly called of the Italians, Unfico, that is to say, fig."

Turner, T. Hudson

1848. Observations on the state of horticulture in England in early times, chiefly previous to the fifteenth century. *Archaeol. Jour.* 5:295-311. Earliest English author to treat of horticulture, and that only incidentally is Alexander Neckam at close of 12th century; enumerates fruits including fig.

Turner, William

1568. The first and second partes of the herbal of William Turner. 3 parts. A. Birckmann, Collen (Cologne). (Virtues of the figge tree, part 2, p. 2.) "The figge tree is so well known that it nedith no farther description."

Turton, William

1806. A general system of nature. 7 vols. Lackington, Allen and Co., London. (*Ficus*, *F. carica* 6:1665.) Leaves palmate in about 3 lobes, rough underneath; fruit glabrous, pear-shaped, umbilicate.

Twining, Elizabeth

1868. Illustrations of the natural orders of plants with groups and descriptions. 2 vols. Sampson Low, Son, and Marston, London. (Fig, 2:124.) Listed only; small color plate of fruit and leaf.

Upcott, William

1825. The miscellaneous writings of John Evelyn. 849 pp. H. Colburn, London. (Fig, pp. 443, 459, 496.) Poultry dung good for fig trees; trees may be "grafted" by inarching; varieties.

Vanstone, J. Henry

1929. The raw materials of commerce. 2 vols. Isaac Pitman and Sons, London. (Fig, 1:208-9.) Short, general.

W., J. S.

1880. The fig - pruning and training improved. *Garden* 18:236, 375. Summer pinching and culture in detail; Dauphine de Argenteuil mentioned as fruiting in England.

W., W.

1889. Figs at Christmas. *Gard. Chron.* (3d ser.) 6:667. Unusual sight, a crop of ripe and ripening figs in forcing house; Negro Largo generally shiest of all fruiterers.

Wadds, A. B.

1933. Fruits under glass. *Gard. Chron.* (3d ser.) 94:58, 139, 251, 322, 358, 430. Notes on culture.



Walker, H. H.

1912. The food inspector's encyclopedia. 303 pp. Bailliere, Tindall and Cox, London. (Figs, p. 113; green figs, p. 137.) Short, general.

Ward, H. W.

1891. My gardener; a practical handbook for the million. 301 pp. Eyre and Spottiswoode, London. (Fig, p. 149.) Brief; Brown Turkey and Marseilles listed.
1894. Fig trees in narrow borders. Gard. Chron. (3d ser.) 15: 464. Roots restricted; liquid fertilizer applied; pruning.
1904. Fig trees on walls out of doors. Gard. Chron. (3d ser.) 35:49-50. Varieties, propagation, culture.
1916. Fig trees on walls. Gard. Chron. (3d ser.) 59:113. Shoots should be trained fan-wise, close to the wall; Brown Turkey chief variety.

Waterston, William

1863. A cyclopedia of commerce. New ed. with suppl. by P. L. Simonds. 672 and 328 pp. Henry C. Bohn, London. (Figs, p. 299; 121.) Quotes from Library of Entertaining Knowledge. Imports from Turkey in drums of 24 lbs. each; from Faro in frails of 32 lbs.; from Malaga in frails of 56 lbs. Short account of figs in Smyrna district.

Watt, George

- 1908-1911. Fig tree. 5:246-47. 1 illus. In: The standard cyclopedia of modern agriculture and rural economy. Ed. by R. P. Wright. 12 vols. Gresham Publ. Co., London. A general account.

Watts, Elizabeth

1867. The orchard and fruit garden. 188 pp. F. Warne and Co., London. (Fig, pp. 171-74.)

Weathers, John

1901. A practical guide to garden plants. 1169 pp. Longmans, Green, & Co., London. (The fig, pp. 1096-97. Figure 163.)
1913. Commercial gardening. 4 vols. Gresham Publ. Co., London. (Figs, 3:174-78. Figures 377-80.) Short, general; culture in the open air and under glass; diseases and insect pests.

Weston, Richard

1773. The gardener's and planter's calendar. 298 pp. T. Carnan, London. (Fig, pp. 62, 92, 108, 195, 220, 267.) Culture, protection from cold, treatment of wall trees; general account.

1775. The English flora, or, A catalogue of trees, shrubs, plants and fruits. 259 pp. + suppl. 120 pp. Published by the author, London. (Fig, pp. 13, 211.) Brief; variety names listed only.

1770-1777. The universal botanist and nurseryman. 4 vols. J. Bell, London. (Fig, 1:109; 4:151.) Sixteen varieties listed, four described, Blanche, Angeline, Violette, and F. de Bordeaux.

Wheeler, James

1763. The botanist's and gardener's new dictionary, containing the names, classes, etc., of the several plants cultivated in England, according to the system of Linnaeus. 480 pp. W. Strahan, London. (Fig, pp. 185-86.) Characters of the species of Ficus; varieties of the common fig; culture.

Whitehead, C. B.

1894. Fruit culture for profit. 86 pp. Soc. for Promoting Christian Knowledge, London. (Fig, p. 73.) Brief; culture.

Whitmill, Benjamin

1765. Kalendarium universale: or, The gardener's universal kalendar. (7th ed.) 261 pp. J. Wilkie, London. First ed. 1726. (Figs, p. 256.)

Wickham, William

1820. Memoranda respecting the culture of fig trees in the open air. Roy. Hort. Soc. Trans. 3:74-85. Habit of tree growth, training for fruit production, remarks.

Wilcox, C.

1935. Outdoor figs. Gard. Chron. (3d ser.) 97:292. General account of culture.

Wilson, J.

1951. Figs growing in the open. In: The Fruit Year Book 1951-1952:88-90. Figures 36-38. Roy. Hort. Soc. London. Culture, gathering the fruit.

Wilson, John M.

1851. The rural cyclopedia, or, A general dictionary of agriculture. 4 vols. A. Fullarton and Co., Edinburgh. (Fig tree, 2:281-82.) A general account.

"Wiltshire Rector"

1884. Sussex fig gardens. Jour. of Hort. See also: Florist and Pomol. 1884:15. Short account of famous fig garden at Worthing; another at Sompting; the fig eater, "becca fico", flies across the channel to get the figs.

## Woodville, William

1832. Medical botany. (3d ed.) 5 vols. John Bohn, London. (Fig, 4:714-16. Figure 244 in color.) Surface of figs commonly covered with a saccharine matter which exudes from the fruit, hence named "Caricae pingues", or fat figs.

## Worlidge, J.

1716. A compleat system of husbandry and gardening; or, The gentleman's companion. 504 pp. J. Pickard, London. (Figs, p. 304.) "Figs are to be planted against walls; but being, of so little use in our rural habitation, I shall leave them."

## Wright, John

- 1891-1894. The fruit grower's guide. 6 vols. Virtue and Co., London. (Fig, 2:170-200. Text figures 55-62 and one color plate.) Good historical account; descriptions of nine black, seven brown, and eight green figs; five varieties illustrated in color.

## Wright, Walter P.

1901. Pictorial practical fruit growing. 152 pp. Cassell and Co., London. (Figs, Ch. 13, pp. 84-86. Figure 64.) Short; culture.
1902. Cassell's dictionary of practical gardening. 2 vols. Cassell and Co., London. (Fig, 1:344.) Short; propagation, culture.
1922. Practical gardening for pleasure and profit. 6 vols. Educational Book Co., London. (Fig, 3:277-78. 3 illus.) See other chapters also.
1930. Everyman's encyclopedia of gardening. 495 pp. J. M. Dent & Sons, London. (1st ed.) 1911. (Fig, p. 158.) Brief.
1933. The Wright encyclopedia of gardening. 614 pp. J. M. Dent & Sons, London. (Fig, p. 192. Figure 153.) Short, popular.

## AFRICA

Abd Al-Latif (1160?-1231)

1810. Relation de l'Égypte. Par Silvestre de Sacy. 752 pp.  
Impr. Impériale, Paris. Cited by Solms-Laubach, 1882,  
Die Herkunft.

Abdel-Salam, Mamoun

1937. An outline of the history of agriculture in Egypt. Part I.  
53 pp. Grunberg, Ministry of Agr., Egypt. (Fig, p. 38.)  
Tree early introduced probably from Arabia, the home of  
this tree being the mountains of Yemen; fruit used for  
food and medicine; caprification not practiced.

Anonymous

1878. Le gros figuier d'Albreda, sur le fleuve de Gambie. Rev.  
des Eaux et For. 17:561-62. Tree 15 m. high, 40 m. cir-  
cumference of branches.
- 1926a. Fig fertilization; unprofitable trees. Farming in So.  
Africa 1:261. Pays to grow varieties not requiring pollin-  
ation.
- 1926b. The cultivation of figs. Farming in So. Africa 1:165.  
See also 1:43. Districts where grown, culture, varieties.
1928. Notice sur les produits de l'agriculture Marocaine. 64 pp.  
Elgaly et Jacquet, Morocco. Dir. Gen. de l'Agr. Com. et  
Colon. Rabat. (Figuier, p. 54.)
1931. L'agriculture en Tunisie. 404 pp. Tunisie Dir. Gen. Agr.  
Com. et Colon. Vieter Berthod, Bourg (France). (Figuier,  
p. 316.)
1942. Catalog des Stations Régionales Horticoles du Maroc. 123  
pp. Réunies, Casablanca. (Figuier, pp. 45, 46.) Numerous  
varieties grown up to 1500 meters elevation.
1945. Survey of land resources in Tripolitania. 156 pp. British  
Military Admin., Dept. Agr., Tripolitania. Abstracted in:  
Hort. Abs. 16:1726. 583,000 fig trees in 1935.
1953. Les fruits secs au Maroc. Fruits et Primeurs 23:264-66.  
Illus. (Les figues, p. 264.) Fig drying.

Ascherson, Paul F. A.

1881. Die aus dem mittlern Nordafrika dem Gebiete der Rohlfs'schen Expedition nach Kufra bekannt gewordenen Pflanzen. Pp. 386-582. In: Gerhard Rohlfs. Reise von Tripolis nach der Oase Kufra, P. A. Brockhaus, Leipzig. (Ficus carica, pp. 449, 491, 502, 540.) Next to the date palm, fig the chief fruit tree of the country.

Ascherson, Paul F. A., and G. A. Schweinfurth

- 1887-1889. Illustration de la flore d'Egypte. 2 vols. Caire. Also in: Inst. d'Egypte Mem. 2:25-260, 745-821. 1889. (Ficus carica, pp. 140, 805.)

Bachkiroff, Y.

1953. Le moineau steppique au Maroc. 135 pp. Serv. de la Defense des Végétaux, Rabat (Maroc). (Figuiers, p. 62.) Brief.

Badie, Mohamed Abd el, and Ahmed K. el Ghamrawy

1931. The growing of figs. Egypt Min. Agr. Hort. Sect. Booklet 2:1-29. 14 illus. History, localities, botany, caprification, culture, handling the crop, varieties, pests.

Barlow, W.

1911. Fruit culture. Agr. Jour. British East Africa (Nairobi) 4(1):1-6. (Fig, pp. 1, 3.)

Bary, Erwin von

1880. Tagebuch geführt auf seiner Reise von Tripolis nach Ghat und Air. Gesell. für Erdk. Berlin. Ztschr. 15:54-80, 227-40, 315-420. (Ficus carica, p. 230.)

Benson, F. A.

1934. Deciduous fruits. In: Gardening in East Africa. Ed. by A. J. Jex-Blake. Ch. 15, pp. 211-19. Longmans, Green and Co., London. (Fig, pp. 212, 230.) 1939 ed. (Fig, pp. 268, 322.) Easily grows about 5,000 feet elevation, and slopes of the Rift valley appear to suit it well.

Bissing

- (?)Gennikai, vol. 2, pl. 38. Cited by F. Hartmann, L'Agric. dans l'ancienne Egypte, 1923, p. 28.

Bissinger, Erhard

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts., Govt. Pr. Office, Washington, D.C. (Tripoli, pp. 745-46.) Also in: California State Bd. Hort. Rept. 1890:361. Short general account.

Bouloumoy, L.

1930. Flore du Liban et de la Syrie. 2 vols. Texte et Atlas. Vigot Freres, Paris. (Ficus carica, p. 312.) Leaves deciduous, F. carica; leaves persistent, F. sycomorus.



Bousser, R.

1953. Le séchage des fruits au Maroc. La Terre Marocaine 27: 337-44. Also in: Fruits d'Outre-Mer 8:440-44. (Principales normes de travail pour le séchage naturel des figues, p. 343.)

Bove, Nicolas

1834. Figuier commun en Egypt. Ann. Inst. Hort. de Fromont 6: 189.
1835. Observations sur les cultures de l'Égypte. 92 pp. Paris. Reference in Bradley Bibliography 3:130. Cited by Sickenberger, 1901, p. 279.

Braun, Alexander

1877. Ueber die im königlichen Museum zu Berlin aufbewahrten Pflanzenreste aus Altägyptischen Gräbern. Ztschr. für Ethnol. 9:289-310. (Ficus.) See: Royal Soc. Cat. 9:334. Dried fig found in the collection of Passalacqua.

Breasted, J. H.

1906. Ancient records of Egypt, historical documents. 5 vols. Univ. Chicago Press, Chicago. (Fig trees, 1:173, 313, 496. Figs, 3:208; 4:240, 294, 391.) "It was a goodly land, named Yaa; there were figs in it and vines." Figs of the impost and measures.

Broun, A. F., and R. E. Massey

1929. Flora of the Sudan. 502 pp. T. Murby & Co., London. (Ficus carica, p. 216.) Tree said to yield a rubber; cultivated for its fruit.

Brunner, Samuel

1840. Botanische Ergebnisse einer Reise nach Senegambien und den Inseln des grünen Vorgebirges. Flora 23, Beiblätter 1:71-72. Ficus carica listed.

Budge, E. A. W.

1920. An Egyptian hieroglyphic dictionary. 2 vols. John Murray, London. (Fig, see index of English words, p. 1117.)

Burger, I. J., and A. F. de Wet

1931. The culture of the fig tree. Farming in So. Africa 6:169, 170, 207, 208, 251, 281. Also in: Union So. Africa Dept. Agr. Reprint 69:1-13. 3 illus. Also in: Stellenbosch-Elsenburg. College Agr., Univ. of Stellenbosch Farmers' Bul. 47. Climate, soil, culture, pests, caprification, varieties, handling the crop.

## Cella, Paola della

1819. Viaggio da Tripoli di Barberia alle frontiere occidentali dell' Egitto. Genova. (Fico, pp. 30, 120.) French ed. par Adolphe Pezant. Armand-Aubree, Paris. English ed. transl. by Anthony Aufrere. Narrative of an expedition from Tripoli. 238 pp. J. and A. Arch, London. 1822. (Fig, p. 17.)

## Chabas, Francois J.

1873. Etudes sur l'antiquité historique d'après les sources égyptiennes. 606 pp. Maissonneuve and Cie, Paris. Palestine rich in raisins, figs, and pomegranates.

## Chevalier, Aug.

1949. L'origine des plantes cultivées dans l'Afrique du Nord et le Sahara. Soc. d'Hist. Natur. de l'Afrique du Nord. Trav. Bot. 2:51-56. (Figuier, p. 52.) Numerous varieties found.
1952. La situation des cultures fruitières au Maroc en 1952. Acad. Sci. /Paris/ Compt. Rend. 235:109-11. Also in: Rev. Int. Bot. Appl. 32:480-82. Brief on fig; 500,000 trees in Morocco.

## Cillis, Emanuele de

1913. Relaz. Minist. 2:234. Cited by A. Trotter, 1915, p. 149. Short list of varieties.

## Collins, V. D.

1863. The agriculture of Morocco. U. S. Com. Agr. Rept. 1862: 499-508. (Fig, p. 502.) Moors compounded a food from fig and almond "condensed in bulk, self preservative, and wonderfully nutritious, cheap and delicious."

## Corneau, P.

1946. L'arboriculture fruitière au Katanga. 168 pp. Impr. Imbelco, Elisabethville. (Figuier, pp. 92-93.) Kinds of figs; insect pests include two borers.

## Costa, Pablo

1913. Producción y comercio de fruta en Africa del Sud. 112 pp. Taller de Impr. Oficiales, La Plata. (Higos, pp. 20, 28, 30.) In market December to February.

## Davis, R. A.

1928. Fruit-growing in South Africa. 532 pp. Central News Agency, Johannesburg. (The fig, pp. 250-61.) Distribution, classes and varieties of figs, caprification, varieties.

## Decker-David, P. H.

1912. L'agriculture indigène en Tunisie. 777 pp. Gov't. Pr., Tunis. (2d ed.) (Figuier, pp. 352, 353, 365-67, 482-84.) Statistics; general account; drying the crop.

Dowson, V. H. W.

1929. Agriculture in North Africa. Trop. Agric. (Trinidad) 6: 285-88. (Figs, p. 285.) Caprification practiced; improved varieties introduced for trial; Smyrna fig lost its distinctive flavor when grown in Barbary.

Draper, Walter

1895. Gardening in Egypt. 113 pp. L. Upcott Gill, London. (Ficus carica, pp. 94-95.) Also in: Le Jardinage en Égypte. F. Diemer, Caire. 1898. Cultivated near Alexandria and Ramleh; varieties.

du Preez, Daneel

1948. The dropping of immature figs. Farming in So. Africa 23: 817-18. Figures 1, 2. Fig types, caprification.

Duveyrier, Henri

1864. Les Touraregs du nord. Exploration du Sahara. 499 pp. Challamel Aine, Paris. (Ficus carica, p. 193.) Found not only in with dates in oases but planted exclusively in sheltered mountain places.

Eisen, Gustav

1913. Dates and other fruits in Egypt. California Cult. 40:67, 100, 127. (Figs, p. 67.) Fig probably cultivated in ancient times; varieties probably identical with those grown now.

Engler, Adolf

1895. Die Pflanzenwelt Ost-Afrikas und der Nachbargebiete. 2 parts. Dietrich Reimer, Berlin. (Ficus carica, B:177.) Short; localities where grown.
1915. Die Pflanzenwelt Afrikas insbesondere seiner tropischen Gebiete. Vol. 3, part 1. Charakter Pflanzen Afrikas. 869 pp. W. Engelmann, Leipzig. In: A. Engler and O. Drude, Die Vegetation der Erde. (Ficus, pp. 34-51; F. carica, pp. 36, 38.) Areas of fig culture.

Erman, Adolf

1894. Life in ancient Egypt. Transl. by H. M. Tirard. Macmillan and Co., London. (Fig, p. 199.) Illus. of tame monkeys harvesting fruit; question whether of common or of sycamore fig.

L'Espinasse-Langeac, Vicomte de

1896. Le figuier. Chambre Mixte Com. et d'Agr. du Sud Tunisie Bul. de Juin-Oct. 1896:85-86. Reference in: Exp. Sta. Rec. 8:70.

Figari Bey, Antonio

- 1864-1865. Studii scientifici sull' Egitto. 2 vols. G. Giusti, Lucca. (Fico, 2:80, 217, 280.) Gives localities of recent plantings.

## Fiori, Adriano

1912. Boschi e piante legnose dell' Eritrea. 428 pp. Ediz. Inst. Agr. Colon. Ital. Bibl. Agraria Coloniale 7, Firenze. (Ficus, pp. 114-21. Figures 43-46.) F. carica, p. 120, mentioned only in comparison with F. palmata; good description of latter with F. petitiata and F. pseudo-carica included as varieties.

## Forskal, Petrus

1775. Flora Aegyptiaco-Arabica. 220 pp. Mölleri, Hauniae. (Ficus carica, p. 180.) Account of plant, flowers, cynips; comparison with F. sycomorus and other species.

## François, Edm.

1927. La production des fruits à Madagascar. Rev. de Bot. Appl. 715-24. (Figuier, p. 723.) Fig tree rare in Madagascar and considered a useless tree.

## Gavrel, Michel

1949. Le sechage des figues dans le Riff Marocain. Fruits d'Outre-Mer 4:100-3. Figures 1-5. Details of drying and packing.

## Gayner, F. C. H.

1949. The amateur fruit-grower in South Africa. In: Roy. Hort. Soc. London, Fruit Year Book, pp. 79-85. Abstracted in: Hort. Abs. 19:348. Figs found in most gardens; Brown Turkey rare; usual variety is Cape White.

## Girard

- (r) Mémoire sur l'Égypte. See: 3:68. Cited by Karl Ritter, Die Erdkunde, 1822-1859, vol. 7:537-49.

## Guillochon, L.

1913. Traité pratique d'horticulture pour le nord de l'Afrique. (2d ed.) 522 pp. A. Fortin, Tunis. (Figuier, pp. 263-70.) (3d ed.) 1925. Tunis. (Figuier, pp. 279-86. 1 figure.) Culture, caprification, varieties, pests.
1914. État de la culture fruitière en Tunisie et en Algérie. Dir. Gen. Agr. Com. et Colon. Bul. Extrait. 42 pp. Février-Avril Impr. Centrale, Tunis. (Bougie; figuier, pp. 29-33.) Condition and extent of fig culture in the Bougie region.
1927. La culture du figuier en Tunisie. Rev. de Bot. Appl. et d'Agr. Colon. 7(65):18-28. Varieties, culture, caprification, drying, products, pests.
1929. Le figuier en Tunisie. Tunisie Agr. Rev. Mens. Illus. 30: 196-99. Extrait du Soc. Internatl. des Amis des Arbres de Tunisie Bul. Culture, varieties, drying, pests.

1931. Almanach agricole du cinquantenaire. 296 pp. J. C. Bonici, Tunis. (Figuier, p. 237.)
- Guillochon, L., and R. Guillochon  
 1931. Culture des fruits du midi et de L'Afrique du Nord. 244 pp. J. B. Bailliere et Fils, Paris. (Figuier, pp. 189-208. 1 figure.) General; history, culture, varieties, caprification, harvesting, drying, packing, products, pests.
- Hagemacher, G. A.  
 1876. Reise im Somali-Lande 1874. In: Petermans Mitt. Ergang. 10(47). (Feigen, p. 20.) Fig trees found growing wild.
- Hartmann, F.  
 1923. L'agriculture dans l'ancienne Égypte. 332 pp. Libr. Imprim. Réunies, Paris. (Figuier, p. 28.) Brief account; fruits represented in offerings; latex employed in medicine; wine from figs.
- Hayter, C. N.  
 1948. Fruit growing possibilities of the eastern districts of Southern Rhodesia. Rhodesia Agr. Jour. 45:4-8. (Figs, p. 6.) White Genoa and Adam recommended varieties.
- Hebert, J. B.  
 1954. Les fruits dans l'archipel des Comores. Fruits d'Outre-Mer 9:207-12. Figures 1-8. (Figuier, p. 212.) Fruit edible but without particular interest.
- Hiern, William P.  
 1896-1900. Catalogue of the African plants collected by Dr. Friedrich Welwitsch in 1853-1861. 4 parts. Hazell, Watson and Viney, London. (*Ficus carica*, 4:1008.) Cultivated by plant fanciers in various countries but few places in Africa; leaves not deciduous in Golungo Alto.
- Hodgson, Robert W.  
 1931. La culture fruitière en Tunisie. 193 pp. Soc. Anonyme Imprim. Rapide, Tunis. (Le figuier, pp. 96-100. Figure 24.) Many small plantings; several varieties of both common and Smyrna types.  
 1941. Fruit growing in French North Africa. California Cult. 88:395, 402. (Fig, p. 395.)
- Holland, J. H.  
 1922. The useful plants of Nigeria. Kew Roy. Bot. Gard. Bul. Misc. Inform. (Add. Ser.) 9:1-963. (*Ficus carica*, pp. 620-22.) Many references to literature; grows well in Sierra Leone; fairly good fruit produced in Singapore.



Host, G.

1911. Nachrichten von Marokos und Fes. Copenhagen. (Feigen, p. 304.) Cited by Solms-Laubach (1882), Die Herkunft.

Hutchinson, J.

1917. Ficus. Vol. 6, sec. 2, pp. 78-215. In: Flora of Tropical Africa. Ed. by David Prain. L. Reeve & Co., Ashford, Kent. (Ficus carica, p. 79.) Grown in Angola and affords well-tasted fruit, but always inferior to that grown in Europe.

Jackson, T. H.

1947. The home orchard. East African Agr. Jour. 12:153-66. Abstracted in: Biol. Abs. 21:2028. Figs included.

Jumelle, Henri L.

1907. Les ressources agricoles et forestières des colonies Françaises. 442 pp. Barlatier, Marseilles. (Le figuier en Algérie, pp. 14-18; en Tunisie, pp. 59-60.) Account mostly after L. Trabut (1904), Le figuier en Algérie.
1913. Les cultures coloniales. Part 2. Légumes et fruits. 122 pp. J. B. Baillière et Fils, Paris. (Ficus carica, pp. 76-80.) Abstracted in: Exp. Sta. Rec. 31:235.

Klerck, G. W.

1929. Handbook for farmers in South Africa. Govt. Printer, Pretoria. (The fig, p. 511.) Fig grows readily and may be found all over So. Africa; White Adriatic and Genoa principal varieties.

Koch, Karl

1872. Die Feigenbäume Aegyptens. Verein Beförd. des Garten. Preuss. Wochenschr. 15:140-42. Ancient history of common and sycomore fig; tree of Ficus carica not ornamental as are other species described.

Kostlan, A.

1913. Die Landwirtschaft in Abessinien. I. Teil. Acker- und Pflanzenbau. Tropenpflanzer Beih. 14:183-250. (Feigen, p. 246.) Reference in: Bot. Centrbl. 124:111.

Lepsius, Richard

- 1849-1856. Denkmäler aus Aegypten und Aethiopien. 12 vols. Nicolaische, Berlin. (Ficus carica, 4:127, 129.)

Livingstone, David

1858. Missionary travels and researches in South Africa. 732 pp. Harper and Bros., New York. (Fig, p. 521.) Fig tree and other fruits carried from Angola and planted at Shinte.

Loret, Victor

1888. La flore Pharaonique, d'après les documents hiéroglyphiques et les spécimens découverts dans les tombes. Soc. Bot. de Lyon Ann. 15:1-64. (Ficus sycomorus, F. carica, pp. 21-22.) Common fig found in Egyptian graves; palmate leaves figured; fruits and latex employed in medicine.

Malcolm, Donald W.

1953. Sukumaland, an African people and their country. 224 pp. Oxford Univ. Press, London. (Fig, p. 54.) Fig trees (species not stated) often mark the site of old villages where they were planted as cuttings for gateposts to stockyards.

Manetti, Oberto

1914. La Missione Franchetti in Tripolitania. Soc. Ital. per lo studio della Libia. 596 pp. Fratelli Freres, Firenze. (Fico, pp. 455-66.) Propagation, culture, caprification, varieties, production.

Matthews, Felix A.

1897. Fruit culture in foreign countries. Part 3. (The fig, pp. 729-69.) U. S. Spec. Cons. Repts., Govt. Pr. Office, Washington, D.C. (Morocco, pp. 731-33.) Also in: California State Bd. Hort. Rept. 1890:382-83. Varieties, culture, curing.

Meakin, Budgett

1901. The land of the Moors. 464 pp. Swan Sonnenschein & Co., London. (Figs, p. 40.)
1902. The Moors. 503 pp. Macmillan and Co., London. (Fig, pp. 159, 258.) Reference to caprification on Midsummer Day in Morocco.

Micheli, A.

1939. La frutticoltura e la viticoltura nella Libia orientale. Agr. Colon. (Italy) 33:581-92. Abstracted in: Hort. Abs. 10:11. Fig mentioned with other fruits.

Miquel, F. A. W.

1849. Over de Afrikaanische Vijgeboomen. Nederl. Inst. Verh. Eerste Kl. (3d ser.) 1:111-51. (Ficus carica and F. caprificus.) Brief account.

Moldenke, Charles E.

1886. Ueber die in altaegyptischen Texten erwähnten Bäume und deren Verwerthung. (Diss.) 149 pp. Breitkopf & Hartel, Leipzig. (Ficus carica, pp. 96-99.) Fig in ancient Egypt.

Montagnac, P.R.

1952. Le figuier dans le sud-ouest de Madagascar. Fruits d'Outre-Mer 7:513-23. Illus. Introduction, culture, composition, varieties, propagation, packing, pests.

Muhammad, I.

1951. Fruit map of Egypt. Punjab Fruit Jour. 15:15-17. Figs included.

Muschler, Reno

1912. Manual flora of Egypt. 2 vols. R. Friedlaender and Sohn, Berlin. (Ficus, 1:246-49.) Common fig found in wild state and cultivated without caprification in many varieties.

Nel, R. I.

1947. Improving the fruit industry. Farming in So. Africa. 22: 321-30. (Fig, p. 324. Mention only. Fig varieties tested for preservation, p. 330.)

1949. Strengthening the fruit industry. Farming in So. Africa 24:594-99. (Figs, p. 595.) Experimental plantings.

Newberry, P. E.

- The ancient botany. In: M. M. F. Petrie. Kahn, Gurob, and Hawara. Cited by A. Lucas, (1926), Ancient Egypt. materials, p. 29.

Norden, F. L.

1757. Travels into Egypt and Nubia. Transl. by Dr. Peter Templeman. 2 vols. in 1. Lockyer Davis and Charles Reymers, London. (Fig, 1:79.)

Novel, P.

1954. L'arboriculture fruitiere au Maroc. Rev. Hort. 126:1093-5. Fig one of the principal crops.

Pacho, J. R.

1827. Voyage dans la Marmarique et la Cyrenaïque. Paris. (Figuier, pp. 32, 98, 99, 132.) Cited by Solms-Laubach (1882), Die Herkunft. Fig tree thrives along the coast of Marmarica and in Tripoli and Cyrenaica.

Petrie, Wm. M. F.

1889. Hawara, Biahmu, and Arsinoe. 66 pp. 30 pls. Field and Tuer, London. (Fig, pp. 48, 53.) The true fig existed in ancient Egypt.

Raffenau-Delile, Alire

1824. Flore d'Égypte. 2 vols. Reprinted from: Description de l'Égypte. Paris. (Ficus carica, No. 969, listed among plants of Egypt, last section of vol. 1.)

Rebour, H.

1938. Manuel du planteur. (2d ed.) 312 pp. Tunis. (3d ed.) 1947. 480 pp. Union Syn. des Prod. d'Agrumes, Alger. (Figuier, pp. 54, 83, 88, 92, 96, 151, 167, 171, 214, 329.) Culture, climate, economics, soil, varieties.
1946. La situation économique des principales productions fruitières de l'Afrique du Nord. Acad. d'Agr. de France, Compt. Rend. 32:355-56. Abstracted in: Hort. Abs. 16:155.
1952. L'arboriculture en Afrique du Nord. Pomol. Franç. 79:126-28. Areas of cultivation, annual yields of fig.

R/egel, Ed.7

1862. Früchte und Pflanzen im Gebiete von Zanzibar. Gartenflora 11:338. Mulberries and figs thrive.

Richard, Achille

- 1847-1851. Tentamen florae Abyssiniae. 2 vols. Arthus Bertrand, Paris. (Ficus, 2:265.) Solms-Laubach (1882, Die Herkunft) said he could not differentiate between F. pseudo-carica and F. petitiiana from description by Richard.

Riviere, Charles, and H. Lecq

1906. Cultures du midi de l'Algérie et de la Tunisie. 511 pp. J. B. Bailliere, Paris. (Figuier, pp. 387-99.) 1924 ed. (Figuier, pp. 297-308.)
- 1928-1929. Traité pratique d'agriculture pour le nord de l'Afrique. 2 vols. Nouvelle ed. revue et augmentée par Ch. Riviere. Soc. d'Editions Géogr., Maritimes et Colon., Paris. (Figuier, 1:474-80; 2:121, 256, 567.) General account.

Rohlfs, Gerhard

1873. Mein erster Aufenthalt in Morocco. Bremen. (Feigen, pp. 271, 368.) See also: Adventures in Morocco. 371 pp. Low, London, 1874. Wild figs found south of Atlas Mts.; trees appear everywhere in oases.
1881. Kufra. Reise von Tripolis nach der Oase Kufra. 559 pp. F. A. Brockhaus, Leipzig. (Ficus carica, p. 162.) See also: G. Rohlfs' expedition in die Libysche Wüste. Petermanns' Mitteil. aus J. Perthes Geogr. Anst. 20:178-85. 1874.

Rosellini, Ippolito

- 1832-1844. I monumenti dell' Egitto e della Nubia. Nicolo Capurro, Pisa. (Ficus carica, 1:382. Pl. 39, figure 2.) Figure 2 labeled, "Picking figs in ancient Egypt," reproduced by Condit in "The Fig," 1947, p. XVIII.

Sampson, H. C.

1936. Cultivated crop plants of the British Empire and the Anglo-Egyptian Sudan (tropical and sub-tropical). Kew Roy. Bot. Gard. Bul. Misc. Inform. (Add. ser.) 12:1-251. (Ficus carica, p. 82.) Local names, distribution.

Schimper, W.

1837. Reise in Abyssinien. Cited by Karl Ritter, Die Erdkunde, 1844.

Schweinfurth, G. A.

1884. Ueber Pflanzenreste aus alt-ägyptischen Gräbern. Deutsch. Bot. Gesell. Ber. 2:351-71. (Ficus carica, p. 368.) Figs found among foods in the graves.

1888. Sur la flore des anciens jardins arabes d'Égypte. In: Inst. d'Égypte Bul. (2d ser.) 8:294-337. (See also: 1st ser. 12:200.) (Ficus carica, pp. 303, 305.)

1891. Ägyptens auswärtige Beziehungen hinsichtlich der Culturgewächse. Ztschr. für Ethnol. 23:649-69. (Ficus carica, p. 657.) Fig originated in the Pount country.

Scott, G. Shaw

1907. Report of the chief, horticultural division, Gov. Forestry Station, Wilgeboom Nek. In: Orange (Free State) River Colony Dept. Agr. 3d Ann. Rept.: 216-40. (Figs, pp. 221, 225, 229, 233, 237.) Lists of varieties.

Shabetai, J. R.

1940. Contribution to the flora of Egypt. Plants collected from Southern Sinai in April 1937. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 234:1-84. Illus. Govt. Press, Cairo. (Ficus carica, p. 31.)

Shaw, Thomas

1738. Travels or observations relating to several parts of Barbary and the Levant. 442 pp. The Theatre, Oxford. (Figs, pp. 226, 370.) 3d ed. corrected. 2 vols. 1808. Edinburgh. (Figs, 1:71, 75, 264, 265; 2:149, 150.) Also in: Pinkerton, Voyages and travels, 15:499-680. (Capri-fication. p. 603.)

Sickenberger, E.

1901. Contributions à la flore d'Égypte. Inst. d'Égypte Mem. 4:167-335. (Ficus carica, p. 279.) Three varieties described; description after Nicolas Bove, 1834.

Sim, T. R.

1905. Tree planting in Natal. Natal Dept. Agr. Bul. 7. 354 pp. Fig included.



Sonnini de Mirancourt, C. S.

1799. Voyage dans la haute et basse Égypte. Transl. by Henry Hunter. Travels in Upper and Lower Egypt. 3 vols. John Stockdale, London. (Fig, 2:232-33.) 1800 ed. 730 pp. Name of translator not given. John Debrett, London. (Fig trees, p. 400.) Figs in general of an exquisite flavor.

Sprigg, J. Gordon.

1888. Colonial fruit. Cape Colony. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888(13):15-19. (Figs, pp. 16, 18.) Grow to perfection.

Stuhlmann, Franz

1909. Beiträge zur Kulturgeschichte von Ostafrika. 907 pp. Dietrich Reimer, Berlin. (Ficus carica, p. 102-3.) Wild fig in many forms; common names; short account.

Theunissen, R. A.

1939. La production fruitière dans le Haut-Katanga. Congr. Internatl. d'Agr. Trop. et Subtrop. (Paris, 1937)7:157-63. (Figuier.)

Thiselton-Dyer, William T.

- 1859-1900. Flora capensis. 7 vols. L. Reeve and Co., London. (Ficus carica, 5:524.) Much cultivated in South Africa and is often found as a garden escape.

Torrejón y Boneta, D. Angel, and P. Arias y Juárez

1923. Estudios e informe relativos a la colonización agrícola de la zona de protectorado de España en Marruecos. 290 pp. Hellenica, Madrid. (Higuera, p. 172.) Well adapted to climate and grows spontaneously.

Tothill, J. D.

1940. Agriculture in Uganda. 551 pp. Oxford Univ. Press, London. (Ficus carica, p. 492.) Listed as fruit not of good flavour.

Toutain, Jules

1930. The economic life of the ancient world. 361 pp. Kegan Paul, Trench, Trubner and Co., London. (Fig, p. 270.) From: Rev. and Nouv. Rev. Hist. du Droit Français et Étranger 16:311. 1899. Privileges granted to African estates that planted or renewed vineyards, olive groves, and fig orchards.

Tribolet, I.

1920. Report of the Division of Horticulture. In: Union So. Africa Dept. Agr. Rept. 1918-19, Appendix VII:85-90. (Calimyrna fig seedlings, p. 88.)

1921. Report of the Division of Horticulture. In: Union So. Africa Dept. Agr. Rept. 1919-20:57-58. (Smyrna and capri fig trees distributed, p. 58.)
1923. Fruit drying. Union So. Africa Dept. Agr. Jour. 6: 346-56. (Figs, p. 352.) Best varieties for drying are Calimyrna, White Genoa, and White Adriatic; methods described.

Trotter, Alessandro

1915. Flora economica della Libia. 375 pp. Tipogr. Unione Editrice, Roma. (Ficus carica, pp. 148-50. Figures 74, 75.) Fig cultivated in all of Libia and Tripolitania.

Tysser, H. F. (Editor)

1937. Survey of the fruit trade. Pp. 13-53. In: The South African fruit industry. British-Continental Press, London. (Fig imports.)

Unger, Franz

1859. Botanische Streifzüge auf dem Gebiete der Kulturgeschichte. Die Pflanzen des alten Aegyptens. Akad. der Wiss, Wien, Math.-Nat. Klasse Sitzber. 38:69-138. (Feige, pp. 83, 110.) Question whether the figs shown by Rosellini from graves of Benihasan are of common or of sycomore fig.

Walter, H.

1940. Die Farmwirtschaft in Deutsch-Sudwestafrika. Ihre biologischen Grundlagen. III. Deutsche Forscherarbeit in Kolonie und Ausland. 150 pp. Paul Parey, Berlin.  
Abstracted in: Hort. Abs. 13:191.

Watermeyer, J. C.

1898. Deutsch-Südwest-Afrika. 25 pp. Dietrich Reimer, Berlin.  
Abstracted in: Tropenpflanzer 3:274. Figs of Hereroland excellent; drying not successful.

Welwitsch, Friedrich

1861. Notes. Bonplandia 9:43. Ficus carica listed as growing in the garden, Province of Benguela, West Africa.

Westermarck, Edward

1905. Midsummer customs in Morocco. Folklore 16:32. Fig trees bear excellent crop if trunk is painted with ring of cowdung and red earth.

Widiez, M.

1932. La culture du figuier en Afrique du Nord. Agr. Prat. des Pays Chauds (24):415-45. Abstracted in: Rev. Appl. Ent. 20:473. Statistics, culture, varieties, caprification, handling the crop, pests.

Wilkinson, John G.

1878. Manners and customs of the ancient Egyptians. (New ed.) 3 vols. John Murray, London. (Fig, 2:408.)

Willcocks, William, and J. I. Craig

1913. Egyptian irrigation. (3d ed.) 2 vols. Spon and Chamberlain, New York. (Figs, 2:771) 2,000 acres of figs in Egypt; listed only.

Williams, R. O.

1849. The useful and ornamental plants in Zanzibar and Pemba. 497 pp. Govt. Printer, Zanzibar. (*Ficus carica*, p. 262.) Some trees in the Protectorate bear fruit but do not really thrive in the tropics.

Woenig, Franz

1886. Die pflanzen in alten Aegypten. 426 pp. W. Friedrich, Leipzig. (Feigenbaum, pp. 293-94. 3 figures.) Ed. 2. 1897. Ancient history and origin; comments on figures found on monuments.

Wood, J. M., et al.

1888. Colonial fruit. [Natal.] Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:225-33. (Fig, pp. 227, 228.) Figs in January and continue for two to three months; prices just sufficient to cover costs of picking and carriage to market.

Yankovitch, L., and P. Berthelot

1947. Rapport sur l'enracinement de l'olivier et des autres arbres fruitiers en Tunisie. Tunisie Ann. Serv. Bot. et Agron. 20:111-76. (Figuier, p. 167. Figure 21.) Abstracted in: Hort. Abs. 19:17 and 20:11. Also in: Acad. d'Agr. de France Compt. Rend. 34:774-76. Root system of one fig tree described.

Zanon, Vito

1920. L'orticoltura a Bengasi. 116 pp. Instit. Agr. Colon. Italiano, Firenze. (Fico, p. 50.) Arabic=Karmus sultan; abounds in horticultural zones; insect pests.

## ALGERIA

## Algérie, Gouvernement General

1952. Rapport du Conseil de l'Expérimentation et des recherches agronomiques pour 1951-52. 288 pp. Algiers. Abstracted in: Hort. Abs. 23:544.

## Anonymous

1942. Comptes-rendus de l'experimentation fruitiere en Algerie, année 1941. Alger Inspec. Gen. Agr. Bul. 75. 35 pp. Abstracted in: Hort. Abs. 115:161. Drying and sulphuring experiments with four varieties of figs.
1950. Le figuier et l'exportation des figues en Algérie. Algériens Doc. Ser. Econ. Agr. No. 68. 9 pp. Illus. Botanical characters, regions, culture, caprification, handling the crop.

## Battandier, J. A., and Louis Trabut

- 1888-1890. Flore de l'Algérie. Dicotyledones. 825 pp. A. Jourdan, Alger. (Ficus carica, p. 813.) Short; general.
1898. L'Algérie; le sol et les habitants. 360 pp. J. B. Bailliere et Fils, Paris. (Figuier, pp. 44, 83.) Short account of culture by the Kabyles; caprification scrupulously practiced.

1902. Flore analytique et synoptique de l'Algerie et de la Tunisie. V. Giralt, Alger. 460 pp. (Figuier.)

## Beilaiche, Charles

1923. Taking care in packing figs. Fruitman (Fresno) 3(1):5. Jan.-Feb. Short account of fig industry of Kabylia.

## Berthault

1930. La situation de la production des figues en Algérie et la "Semaine du Fiquier". Pp. 138-42. In: Semaine du Fiquier; Chemins-de-Fer Algériens de l'État Compte-Rendu.

## Bille

1930. Exposé général de la situation. Programme à réaliser. Pp. 26-29. In: Semaine du Fiquier; Chemins-de-Fer Algériens de l'État Compte-Rendu. General review of the fig industry in Algeria.

## Blampin, M. G.

1930. Project de standardisation de la figue d'Algérie. Pp. 77-80. In: Semaine du Fiquier; Chemins-de-Fer Algériens de l'État Compte-Rendu. Quality, grades, packing.

Blin, Henri

1942. Le figuier en Algérie. Rev. Hort. [Paris] 114:128-31, 164-68, 207-10. Illus. General; propagation, culture, caprification, grafting, varieties, diseases, insects.

1948. L'industrie des figes sèches en Algérie. Revue Hort. (Paris) 120:368-71. Illus.

Boyer-Banse

1930. L'organisation des producteurs de figes. Pp. 73-76. In: Semaine du Figuier; Chemins-de-Fer Algériens de l'Etat Compte-Rendu. Extent of organisation.

Erichet, J.

1930. Le figuier en Algérie. Pp. 30-46. In: Semaine du Figuier; Chemins-de-Fer Algériens de l'Etat Compte-Rendu. Classes of figs, caprifigs and caprification, varieties for drying, improved culture.

Calcat, A.

1930. Les figes sèches d'Algérie. Jour. d'Agr. Prat. 54:513-16.

1931. Préparation des figes sèches d'Algérie. Jour. d'Agr. Prat. 55:50-52.

Condit, Ira J.

1924. The fig industry of Algeria. Assoc. Grower 6(11):10, 17. 2 illus. Also in: California Fruit News 74(July 10):4-5. 1926. Statistics, prices, climate, culture, handling the crop, exports.

Durand, Gilbert

1949. Projet d'organisation du commerce des figes Algériennes pour l'exportation. Algérie Bul. Econ. et Jurid. 13(123): 453-55. Improvement in culture, methods of packing, standardisation, creation of an "Office de la Figue".

Gagnard, J.

1948. Le figuier en Algérie son avenir. Fruits et Primeurs 18 (189):86-90. Illus. Production figures, culture, varieties, new plantings, caprification.

Gubb, A. S.

1913. La flora Saharienne. 129 pp. Adolphe Jourdan, Alger. (*Ficus carica*; figure 54.) Cited by O. Stapf, 1931, Index Londinensis.

Hanoteau, Louis A., and A. Letourneux

1872-1873. La Kabylie et les coutumes Kabyles. 3 vols. l'Imprim. Nationale, Paris. (Figuier, 1:433-41, 501-2.) Varieties, culture, caprification, handling the crop.



Heintz, A.

1936. La culture du figuier en Grande Kabylie. Rev. de Bot. Appl. et d'Hort. Trop. 16:1002-7. D'apres: Travaux présentés à la Chamber d'Agr., session de Nov. 1935, pp. 83-97. Statistics, areas of culture.

Husson

1930. Preparation industrielle des figues sèches. Pp. 49-54. In: Semaine du Fiquier; Chemins-de-Fer Algeriens de l'État Compte-Rendu. Method of drying; composition.

Jones, C. L., and E. A. Dow

1925. Algeria--a commercial handbook. Gov't. Pr. Office, Washington, D.C. U. S. Bur. Foreign and Dom. Com. Trade Prom. Series 3. (Figs, pp. 17, 31.)

Juan, M.

1949. Rapport sur l'exportation des fruits et primeurs. Algérie Bul. Econ. et Jurid. 13:475-78. Le Congrès Algérien de la Figue, Bougie, 3, 4, et 5 Sept.

Kearney, T. H., and T. H. Means

1905. Agricultural explorations in Algeria. U. S. Bur. Plant Ind. Bul. 80:1-98. Illus. (Figs, pp. 67-68.) Fig ranks next to olive in importance, especially in the mountain zone of the coast region; notes on culture and caprification.

Kergomard

1930. Le commerce des figues. Marque à adopter; groupement des exportateurs. Pp. 81-86. In: Semaine du Fiquier; Chemins-de-Fer Algeriens de l'État Compte-Rendu. Syndicat Kabylia; objectives.

Lapie, G., and A. Maige

1914. Flore forestière de l'Algérie. 357 pp. E. Orlhac, Paris. (Fiquier.)

Lecq, H.

- 1901a. Le figuier en Algérie. Rev. des Cult. Colon. 8:353-58. General; short description of 35 varieties; propagation, culture, caprification, harvesting and drying, packing, pests.
- 1901b. Importance économique de la culture du figuier en Algérie. Soc. Geog. de Alger Bul. April 6-11, 1901: 230-34. Table.

Leon, Georges

1949. Le point de vue du syndicat des conditionneurs de figues sèches d'Algérie. Algérie Bul. Econ. et Jurid. 13:474-75. Le Congrès Algérien de la Figue, Bougie.

Lescure, J.

1892. L'agriculture Algerienne. 360 pp. Libr. Agricole de la Maison Rustique, Paris. (Le figuier, pp. 266-67.) Short, general.

Manquené, M. J.

1930. Le figuier dans les sables. Pp. 67-72. In: Semaine du Fiquier; Chemins-de-Fer Algeriens de l'Etat Compte-Rendu. Soil; analyses.

Mauri, N.

1942. Les figuiers cultivés en Algérie. Algerie Govt. Gen. du Serv. Arbor. Bul. 93:1-56. Suppl. of 98 figures. (2d ed.) Bul. 150:1-56. 1944. Good account of varieties, culture, handling the crop.

Messerschmitt, Paul

1949. Le Congrès de la Figue. Algérie Bul. Écon. et Jurid. 13: 451-52. Outline of program, purposes, members.

Mohand, Sahli

1949. Rapport sur la propagande. Algérie Bul. Écon. et Jurid. 13:456-57. Le Congrès Algérien de la Figue, Bougie.

Moret, J.

1934. L'Exploitation des cultures fruitières en Algérie. L'École Colon. Agr. Tunis Ann. 1932-34:105-35. Figs included.

Morettini, Alessandro

1948. Le colture arboree in Algeria. Italia Agr. 85:647-59. Illus. Fig trees occupy an area of 70,000 hectares; Algeria third in importance with production of 680,000 quintals.

Munby, Giles

1847. Flore de l'Algérie, ou Catalogue des plantes indigènes du Royaume d'Algier. 120 pp. J. B. Bailliere, Paris. (Ficus carica, p. 111.) Fig tree undoubtedly indigenous in Algeria.

Navellier, E.

1954. Le calibrage des fruits. Fruits d'Outre-Mer 9:24-30. (Figues, p. 25.) Article 8, Aug. 27, 1948, specifies grading rules for export figs, size, color, uniformity.

Rebour, H.

- 1948a. Le plan de modernisation de l'arboriculture fruitière en Algérie. Fruits et Primeurs 18:111-15. Figures on present production and plans for future of the fig industry.

- 1948b. Variétés fruitières à cultiver en Algérie. Alger Serv. Arbor. Bul. 141:1-15. (Fig.) Abstracted in: Hort. Abs. 19:13.
- 1949a. L'amélioration de la production de la figue en Kabylie. Algérie Bul. Econ. et Jurid. 13:458-64. Comparative climates, rainfall, varieties, cultural practices, caprification.
- 1949b. Le Congrès Algérien de la figue, Bougie, 3, 4 et 5 Sept. 1949. Fruits et Primeurs 19:345-46. Report on subjects discussed.
- 1949c. Plantations fruitières suivant les courbes de niveau. Espèces et variétés à cultiver. Fruits et Primeurs 19:209. Short account; varieties of figs recommended.
- 1949d. Situation de la culture du figuier en Algérie. Acad. d'Agr. de France Compt.-Rend. 35:584-86. See also: Le figuier en Algérie. Rev. Hort. de l'Algérie 53:348-56. Abstracted in: Hort. Abs. 20:16.
- 1949e. Les zones de séchage des fruits en Algérie. Fruits et Primeurs 19:315-16. Illus. Illustration of figs drying on raised trays in Kabylia.
- 1950a. Les cultures fruitières dans le Sud-Oranais. Fruits et Primeurs 20:43-46. (Figuier, p. 44.) Success of fig culture depends upon caprification.
- 1950b. Les cultures fruitières sahariennes autres que le dattier. Bul. Inf. Otus 38:105-11. (Figs.) Abstracted in: Hort. Abs. 22:405.
1951. L'arboriculture fruitière en Algérie. Rev. Hort. de l'Algérie. 55:269-83. Illus. (Figs.) Abstracted in: Hort. Abs. 22:405.
1954. L'expérimentation agricole en Algérie en 1953. Fruits et Primeurs 24:367-69. (Figuier, p. 368.) Caprification, drying.
- Rebour, H., et al.
1945. Comptes-rendus de l'expérimentation fruitière en Algérie 1943 et 1944. Doc. Rens. Agr. de l'Algérie Bul. 118:1-32. Fig drying.
- Rebour, H., and Aug. Chevalier
1952. Les cultures fruitières d'Algérie. Rev. Internatl. Bot. Appl. 32:474-79. (Figuier, pp. 475, 477.)

Riviere, Charles

1889. Algérie; horticulture générale, végétation, cultures spéciales, acclimatation. 216 pp. Giralt, Alger. (Ficus carica, p. 43.) Brief; tree subsontaneous in Algeria.

Stott, M. D.

1914. The real Algeria. 319 pp. Hurst and Blackett, London. (The fig, p. 120.) It is to this fruit alone that is due the comparatively dense population of the neighborhood of Fort National; notes on uses of figs and on caprification.

Trabut, Louis

1901. Rapport sur les études de botanique agricole. Bul. Agr. de l'Algérie, Tunisie 7:443-50.
1904. Le figuier en Algérie. Algérie Gouv. Gen. Dir. de l'Agr. Serv. Bot. Bul. 38:1-37. Illus. Also in: Bul. Agr. de l'Algérie, Tunisie 10:297-303, 321-28, 344-47, 361-68, 385-89. Figures 1-29. Good general account.
1905. L'acclimatation en Algérie. Algérie Gouv. Gen. Dir. de l'Agr. Serv. Bot. Bul. 41:1-49. (Figuier, pp. 21-23. 2 figures.) Short; effect of caprification; Isly, a seedling.
1922. L'arboriculture fruitière dans l'Afrique du Nord. 430 pp. Imprim. Algérienne, Alger. (Figuier, pp. 31-32.) Short account.
- 1923-1924. Le figuier. Bul. Agr. de l'Algérie, Tunisie, Maroc 2e Série 29:17-21, 33-39, 49-60, 73-75, 97-101, 117-24, 137-49, 173-77, 189-92, 213-17; 30:25-26. Illus. Good general account.

Vivet, E.

- 1930a. La Semaine du Figuier. Rev. Agr. de l'Afrique du Nord 28:657-60. See also: 28:614-19.
- 1930b. Rapport d'ensemble sur les travaux de la "Semaine du Figuier". Pp. 87-90. In: Semaine du Figuier; Chemins-de-Fer Algériens de l'État Compte-Rendu. Summary of reports and programs.

## AUSTRALIA

## Abbott, F.

1888. Colonial fruit, Tasmania. Kew Royal Bot. Gard. Bul. Misc. Inform. 1888:11-12. (Fig, p. 12.) Cultivated to limited extent.

## Anonymous

1890. The capabilities of certain districts of the colony for fruit and vine cultivation. N. S. Wales Dept. Agr. Bul. 1:207-39. (Fig, p. 207.)
1900. Figs. Queensland Agr. Jour. 6:204, 286. Drying of figs; profits.
1901. The fig in Australia. Queensland Agr. Jour. 9:405-6. Smyrna fig; caprification fast becoming a thing of the past.
1907. The preparing of dried figs. Cape Good Hope Agr. Jour. July. Also in: Queensland Agr. Jour. 23:221. Oct. 1909. Method described.
1910. Drying the Smyrna fig. Queensland Agr. Jour. 25:239-40. Details of process; dipping in lye toughens the skin.
1924. According to Australian Encycl. Vol. 1:492-94, Pierre Lesson a naval surgeon visited Sydney in 1824; reported oranges good enough as are figs.
1925. Fruit growing. In: The Australian encyclopedia. 2 vols. Angus and Robertson, Sydney. See 1:492-94. Figs growing well in 1803. In 1824 "oranges good enough as are figs".
1939. Statistics showing area and production of the Australian fruit industry. Fruit World (Australia) Annual Spec. Issue (Jan.), pp. 23-26. (Figs, pp. 23, 24, 25, 26.) Acreage, yields, value.
1940. Fig levy. Queensland Agr. Jour. 54:406. Advertising levy of 5 s. per ton.
1941. Fig cultivation. Queensland Agr. Jour. 56:419-20. Propagation, pruning, and varieties.
1943. Australian Dried Fruit News. In: California Fruit News 109(March 4):7. 1944. Statistics.



1945. The Australian fruit industry. In: Fruit World Annual, pp. 21-25. Melbourne. (Fig acreage and production, pp. 24, 25.)
1947. The Australian fruit industry, area and production. Fruit World Annual, pp. 23-27. (Figs, p. 27.)
- Arndt, F. R.  
1930. Fruit-growing under irrigation. 214 pp. Hassell Press, Adelaide. (The Smyrna fig, p. 34. 1 figure.) Two plantations in full bearing, both located at Berri; further plantings made.
- Babbitt, E. G.  
1925. Dried fruit, canning and preserving industries of Australia. California Fruit News 72(Oct. 13):4-5. Figs included.
- Barnes, H.  
1940. The Queensland agricultural and pastoral handbook. Part I. Tropical and semi-tropical fruits. 150 pp. Govt. Printer, Brisbane. (The fig, pp. 128-29.) Main varieties, White Adriatic, Brown Turkey, Purple and White Genoa.
- Benson, A. H.  
1898. Fruit culture. In: The farmers and fruit-growers guide. 3d ed. 486 pp. W. A. Gullick, Govt. Printer, Sydney. (Fig, pp. 291, 300, 316, 351, 360.) Pruning, pests and varieties.
- Bleasdale, John J.  
1871. New industries. In: Book of tracts. Publ. under direction of Com. for Foreign Industries. The Age Office, Melbourne. (Fig trees and figs, pp. 10-12.) Varieties; harvesting.
- Broadfoot, H.  
1925. The drying of figs. N. S. Wales Agr. Gaz. 36:455. Brief account.
- Brunning, Leslie H.  
1916. The Australian gardener. (18th ed.) 471 pp. Rev. and corrected by F. A. Falkner. F. H. Brunning, Melbourne. (The fig, pp. 328-29.) Brief account and short description of nine varieties. (25th ed.) 573 pp. Robertson & Mullens, Melbourne. 1940. (Fig, pp. 509, 540.) Most suitable varieties are Brown Turkey, Black Ischia, and White Genoa; pests are: fruit fly, greedy scale, mites and thrips.
- Caley  
1803. Historical records of New South Wales. See Vol. 4:227. (Figs and apples doing well.) Cited by McCulloch, 1939, Fruit industry, p. 10.

## Carew, James

1912. Figs. Queensland Dept. Agr. and Stock Ann. Rept. for 1911-12:55. Crop good but damaged by flying foxes.

## Cheeseman, T. F.

1925. Manual of the New Zealand flora. 1163 pp. Govt. Pr. Office, Wellington. (*Ficus carica*, p. 1060.) Found in deserted orchards but scarcely naturalized.

## Despeissis, A.

1895. The handbook of horticulture and viticulture of Western Australia. 338 pp. E. & P. Traylen, Perth. (Fig, pp. 48, 83, 97, 110, 151-52. Figures 19.) 3d ed. 647 pp. F. W. Simpson, Govt. Printer, Perth. 1921. (Figs, pp. 173, 254-59. 3 illus.) Varieties described; blastophaga established; propagation; fig trees planted for stock food near Pinjarra.

## Gorman, C. H.

1901. Notes on fig drying. N. S. Wales Agr. Gaz. 12:367-69.

## Griffin, G. W.

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts. Govt. Pr. Office, Washington, D.C. (Australasia, pp. 748-49.) Also in: California State Bd. Hort. Rept. 1890:363-64. Not cultivated to any great extent; notes on varieties and culture.

## Harper, Charles

1901. Parasites of insect pests, their introduction advocated. Letter from Mr. Charles Harper. West. Australia Dept. Agr. Jour. 3:111-22. (*Smyrna* fig, p. 121.)

## Herbert, D. A.

1952. Gardening in warm climates. 245 pp. Angus and Robertson, Sydney. (Fig, pp. 99, 110-11.)

## Holland, H.

1888. Colonial fruit; Western Australia. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:10-11. (Fig, p. 10.) Mention only.

## Hunter, H. S.

1940. Report of the Director of Marketing. In: Queensland Dept. Agr. and Stock Ann. Rept. 1939-40:32-43. (Figs, p. 38.) Record crop of 161 tons of figs handled by factories.

## Jones, L.

1940. West. Australia Dept. Agr. Ann. Rept. 1940:1-31. (Figs, p. 26.) Figs a profitable sideline.

## Knight, Joseph

1900. Fig drying made little or no progress. Victoria Dept. Agr. Ann. Rept. 1899:184.

Luffman, C. B.

1896. The fig industry. Victoria Dept. Agr. Guides to Growers 24:1-9.

1897. The dried fruit industry. In: Report of Proceedings of Conference of Australasian Fruitgrowers, June 1897. See pp. 91-98. (Fig, p. 97.) Cultural requirements, directions for drying.

Mackaness, George

1931. The life of Vice-Admiral William Bligh. 2 vols. in 1. Farrar & Rinehart, New York. (Fig, p. 324.) "Following his usual practice he planted a number of fruit trees, quinces, figs, ....near the lagoon at the east end of the beach", Adventure Bay, Van Dieman's Land, 1792.

Maiden, J. H.

1889. The useful native plants of Australia. 696 pp. Turner and Henderson, Sydney. (Fig, pp. 31, 128, 187, 641.)

Mansfield, B. P.

1943. Some aspects of horticulture in New Zealand. Royal Hort. Soc. Jour. 68:223-28. (Figs in Auckland in 1843, p. 226.) Mention only.

Martin, D. E.

1888. Colonial fruit; Victoria. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:2-6. (The fig, p. 5.) Brief.

McCulloch, J. E.

1939. Report of Royal Commission of inquiry into the fruit industry of New South Wales. 595 pp. T. H. Tennant, Govt. Printer, Sydney. (Fig, pp. 10, 13, 14, 27, 53, 72, 156, 173, 182, 184, 394, 395.) History, cost of production; statistics.

Mueller, Ferdinand von

1876. Select plants readily eligible for industrial culture or naturalization in Victoria. 293 pp. M'Carron, Bird & Co., Melbourne. (Fig, pp. 88-89.) Caprification unnecessary, even in some instances injurious and objectionable.

1891. Select extra-tropical plants. 594 pp. (8th ed.) Revised and enlarged. Chas. Troedel and Co., Melbourne. (Ficus carica, pp. 202-4.) Short, general.

Olliff, A. S.

1892. The introduction of the fig insect (Blastophaga psenes Linn.) into Australia. N. S. Wales Agr. Gaz. 3:431-34. Resolution affirming desirability of introducing fig insect.

Pascoe, John F.

1888. Colonial fruit; South Australia. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:7-9. (Figs, p. 7.) Grown in large quantity; not fit for export.

Pomona

1924. The fig industry. Advertiser, Bendigo, So. Australia, Feb. 23. Climate, soil, varieties, culture.

Prest, R. L.

1948. Fig growing in Queensland. Queensland Agr. Jour. 67:332-43. Fls. 116-23. Soils, propagation, culture, varieties, harvesting, diseases and pests.

Rietmann, Othm.

1867. Einige Baumarten und Obstsorten in Sudwales. Gartenflora 16:277. (Feige, p. 277.) Tree grows 15 to 20 feet high and bears two crops annually.

Roberts, R.

1949. In the Murray Valley. Fruit World (Melbourne) 50(7):13. June 6. Smyrna and Adriatic figs grown for drying; fourth in the order of priority for canning.

Robson, T. B.

1911. Blastophaga in Australia. Fruit World of Australia. Also in: Rural Calif. 35:307. Successfully introduced.

Rolfe, W. A.

1949. Fig growing in southern Victoria. Victoria Dept. Agr. Jour. 47:512-13. See also: Fruit World and Market Grower 51(1): 31. 1950. White Genoa and White Adriatic main varieties grown; culture.

Rumsey, Herbert J.

1921. The A to Z of Australian fruit growing. 254 pp. Publ. by author, Dundas, New South Wales. (Fig, pp. 33, 161.) General; culture, varieties.

Savage, C. G.

1922. Smyrna fig culture. So. Australia Dept. Agr. Jour. 25: 511, 512, 514-22.
1924. Smyrna fig culture. So. Australia Dept. Agr. Jour. 28: 404-21. 8 illus. Also in: So. Australia Dept. Agr. Bul. 186:1-20. 1925. History of industry, introduction of blastophaga, caprification, production, diseases and pests.

Scholfield, Bob

1950. Fig crop turned into profit by pulping method. Melbourne Weekly Times, March 29. Figs at rate of 200 tons a year being pulped by J. E. and H. J. Chapman at Griffith, N. S. Wales.

Shackel, T.

1913. Figs. Queensland Dept. Agr. and Stock Ann. Rept. for 1911-12:159, 181. Seventeen acres producing 965 bushels.

Simmons, Chas.

1925. Smyrna fig culture in Western Australia. West. Australia Dept. Agr. Jour. 1:468-71. Also in: Trop. Agr. (Ceylon) 64:152-54. Caprification, varieties of caprifigs, drying.

Sinclair, J. T.

1921. Fruit growing in New Zealand. 132 pp. Whitcombe & Tombs, Auckland. (Fig, p. 41.) Figs an uncommon product of New Zealand gardens; about Auckland trees do well as free standards.

Skepper, A. H.

1948. The drying of figs. N. S. Wales Agr. Gaz. 59:72-73, 92. 2 illus. Smyrna and White Adriatic grown; Adriatic should be caprifiged.

Soutter, R.

1912. Report of the Manager of the State Farm, Roma. In: Queensland Dept. Agr. and Stock Ann. Rept. 1911-12:114-22. (Figs, p. 118.) Only one specimen escaped ravages of nematodes.

Tavener, J. W.

1898. The Government handbook of Victoria. An Australian Colony. Govt. Printer, Melbourne. (Figs, pp. 141, 147.) Figs fruit heavily; drying practiced but not a business.

#### ASIA

Aaronsohn, Aaron

1910. Agricultural and botanical explorations in Palestine. U. S. Dept. Agr. Bur. Plant Indus. Bul. 180:3-64. Illus. (Figs, pp. 21-22.) Trees grow wild, resistant to alkali; an important crop in upper Galilee.

Abdullaev, A. G.

1949. /Subtropical fruit growing in Azerbaidzan.7 (In Russian.) Sad i Ogorod (Orchard and Garden) 1949(12):40-44. Illus. Abstracted in: Hort. Abs. 20:135. Fig does not thrive; less winter-hardy than the pomegranate and persimmon.



Adams, Andrew L.

1867. Wanderings of a naturalist in India. 333 pp. Edmonston and Douglas, Edinburgh. (Fig reared extensively in gardens, Poona, p. 27.)

Aggeenko, V.

1901. The cultivation of Japanese kaki (Diospyros kaki), figs (Ficus carica), Punica granatum and almonds on the southern coast of the Crimea. Selsk. Khoz. i Lyesov. Petrograd 202:673-81. Sept. Abstracted in: Exp. Sta. Record 14:442.

Ainsworth, William

- 1841a. Journey from Angora by Kaisariyah, Malatiyah and Gergen Kal eh-si, to Bir. Royal Geog. Soc. London Jour. 10:275-340. (Fig, pp. 328, 335.) Wild fig trees near Kharik (Mesopotamia); many groves of olives and fig trees near Nizib.

- 1841b. Notes taken on a journey from Constantinople to Mosul in 1839-40. Royal Geog. Soc. London Jour. 10:489-529. (Fig, pp. 505, 515.) Wild fig trees; "Injir Koi (Fig-tree village), where that fruit tree is cultivated in little holes in the rocks, or by piling up stones."

1842. Travels and researches in Asia Minor, Mesopotamia, Chaldea, and Armenia. 2 vols. John W. Parker, London. (Fig, 1:269, 305, 315, et al.) Walls of rock on both sides of ravine in Syria were clothed with wild figs, mulberry, Cercis.

Aitchison, J. E. T.

1869. A catalogue of the plants of the Punjab and Sindh. 204 pp. Taylor and Francis, London. (Ficus carica, p. 137.) Cultivated all over the Punjab, rarely with good fruit, or of any size.

1888. Botany of the Afghan Delimitation Commission. Linnean Soc. London Trans. (2d ser.) Bot. 3. 150 pp. (Ficus carica, pp. 23, 109.) Wild figs found growing as shrubs in clefts of rocks and on hillsides.

Ajrekar, S. L.

1918. Report of the Economic Botanist. Bombay Dept. Agr. Ann. Rept. 1917-18:75-78. (Figs, p. 76.) Pruning to force fruit for the Christmas season fairly successful; attempts to cross varieties failed.

Alboff, N.

1896. Les forêts de la transcaucasie occidentale. Chambésy Switz. Herb. Boissier Bul. 4:61-77. (Ficus carica, pp. 62, 70, 74, 76.) Found several places up to 800 meters elevation.

## Anonymous

1927. Production and world commerce of dried figs. Bol. di Inform. Com. Rome, Dec. 24, 1927, pp. 1033-37. Transl. by U. S. Dept. Commerce.
1929. Hints on fig cultivation. Bombay Dept. Agr. Leaflet 4: 1-3. Replaces Leaflet No. 1 of 1914. Culture, exposure of roots, pests and diseases, sun drying.
1932. A modern English-Chinese dictionary. Introduction by J. W. Crofoot. 1555 pp. Commercial Press, Shanghai. (Fig, p. 432.) A tree of warm climates; also a worthless thing.
1935. Ficus carica. Independent Biol. Lab., Tel-Aviv, Palestine Bul. 3. (In Hebrew.)

## Asavele, R. S., et al.

1935. Report of the committee on the improvement in the marketing of fruit and vegetables in the town of Bombay, 1934. 113 pp. Govt. Central Press, Bombay. (Fig, p. 29, 1 figure.)

## Balfour, Edward G.

1885. The Cyclopaedia of India. 3 vols. B. Quaritch, London. (Fig, 1:1099.) Cultivated in many parts of East Indies up to 5,000 feet elevation; imported from Afghanistan.

## Banse, Ewald

1919. Die Turkei, eine moderne Geographie. 454 pp. Georg Westermann, Berlin. (Feige, see index.)

## Basiner, T. F.

1848. Naturw. Reise durch die Kirgisensteppe nach Khiwa. In: Von Baer and Helmersen: Beitrage zur Kenntniss des russischen Reichs. Petersburg. (Feigen, Vol. 4:237.) Cited by Solms-Laubach, 1882, Die Herkunft. Fig trees called Inschir at Khiwa; planted in a few gardens.

## Bellew, H. W.

1862. Journal of a political mission to Afghanistan. 480 pp. Smith, Elder and Co., London. (Fig, p. 10.) Figs at Kandahar.

## Birdwood, G. C. M.

1865. Catalogue of the vegetable productions of the Presidency of Bombay. (2d ed.) 458 pp. The Education Soc. Press, Bombay. (Ficus carica, p. 180.) Short repetition of history.

## Bissinger, Erhard

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts. Govt. Pr. Office, Washington, D.C. (Syria, pp. 741-45.) Also in: California State Bd. Hort. Rept. 1890:357-60. Varieties, culture, pests.

## Blatter, Ethelbert

1919. Flora Arabica. 519 pp. Govt. Printing, Calcutta. (Ficus carica, p. 443.) Probably indigenous in Arabia; gives var. leucocarpa, and rupestris. F. palmata, p. 44, with F. pseudo-carica as synonym. F. pseudo-sycomorus given specific rank.

## Bogushevsky, P. N.

1935. /Figs of central Asia./ Soviet Subtropics no. 2:56-63. Illus. Feb. (In Russian.) Various species of Ficus distinguished; caprification.

## Bonavia, E.

1894. The flora of the Assyrian monuments and its outcomes. 215 pp. Archibald Constable and Co., Westminster. (Fig, p. 44.) Fig easily distinguishable by its leaves and outline of fruit.

## Bornmüller, Joseph

1898. Ein Beitrag zur Kenntnis der Flora von Syrien und Palastina Wien. Cited by: Im. Low, 1924-34. See: Bot. Centr. Beihefte 73:353.

## Brandis, Dietrich

1874. Forest flora of northwest and central India. 608 pp. Wm. H. Allen and Co., London. (Ficus carica, pp. 418-19.) Key to two species, F. carica and F. virgata; characteristics of each.
1906. Indian trees. 767 pp. Archibald Constable & Co., London. (Ficus carica, p. 607.) Indigenous in Baluchistan, Afghan; cultivated in northwest India and the Deccan.

## Bretschneider, Emilii V.

- 1882-1895. Botanicon Sinicum. Notes on Chinese botany, from native and western sources. 3 vols. Kelly & Walsh, Shanghai. (Ficus carica, 2:237.) Mention only.

## Buckingham, James S.

1825. Travels among the Arab tribes east of Syria and Palestine. 669 pp. Longman, Hurst and Green, London. (Fig, p. 408.) Excellent figs on road to Sidon.
1827. Travels in Mesopotamia. 2 vols. Henry Colburn, London. (Fig, 1:150, 175, 178.) Brief references.

Buhle, Johann G.

1785. *Calendarium Palaestinae oeconomicum*. 56 pp. J. C. Dieterich, Gottingae. (*Ficus*, pp. 6, 15f, 24; *F. sativa*, pp. 34f, 41.) Cited by Immanuel Low, 1934.

Burkill, I. H.

1935. *Dictionary of the economic products of the Malay Peninsula*. 2 vols. Crown Agents for the Colonies, London. (*Ficus carica*, 1:1000-16.) Describes attempts to grow figs at Singapore.

Burnes, Alexander

1834. *Travels into Bokhara*. 3 vols. John Murray, London. (Fig, 2:108, 120, 171, 202.) Mentioned with other fruits which are celebrated more for quantity than for quality; at Koondooz one again meets the fig, which does not grow in Cabool; figs grow spontaneously in Persia.

Burns, William

1909. Annual report of the experimental work of the Ganeshkind Botanical Station for 1908-1909:1-30. (Figs, p. 20.) Saharanpur figs drop; local figs mature. See also: Report for 1909-10, p. 19; for 1910-11, p. 13; for 1911-12, pp. 21-22; for 1912-13, pp. 19-20; for 1913-14, pp. 18-19; for 1914-15, pp. 23-24; for 1915-16.

1917. Report of the Economic Botanist. Bombay Dept. Agr. Ann. Rept. 1916-1917:54-56. (Figs, p. 55.) Attempts to force two fruiting seasons into the dry months of the year so far unsuccessful.

1921. A short report on the experimental work of the Ganeshkind Botanical Garden, Kirkee, 1916-1920:1-17. (Figs, pp. 9-10.) Crop unsatisfactory on account of fruit losses from birds and thieves, necessity of watering trees every fifth or sixth day in hot weather.

Burton, Richard F.

1898. Personal narrative of a pilgrimage to Al Madinah and Meccah. 2 vols. G. Bell and Sons, London. (Figs, 1:405.) Figs mentioned with other fruits.

Carmin, Joseph

1954. The fig tree in Israel. Independent Biol. Lab. Israel Bul. 10(4):1-9. Varieties, pests. Part 2. 107 figures. Nov. 1955.

Cernenko, J. S.

1949. The fig. *Sad i Ogorod* No. 3:23-25. Illus. (In Russian.) Abstracted in: Hort. Abs. 19:227. Briefly described; reference made to new varieties being raised at the Sochi research station; four varieties and four new seedlings described.

## Chandler, Richard

1775. Travels in Asia Minor. 283 pp. The Clarendon Press, Oxford. (Fig, pp. 212, 215.) Near Magnesia, orchards of fig trees sown with corn. Antiochia produced in plenty, figs called Antiochene, strung like beads, extremely good as well as cheap.

## Chardin, John

1735. Voyages du Chevalier Chardin en Perse et autres lieux de l'Orient. 3 vols. aux Dépens de la Compagnie, Amsterdam. (Fig, 3:26.) Figs excellent in Persia.

## Cheema, G. S., and P. G. Dani

1928. Economic value of fruit farming in Western India. Bombay Dept. Agr. Bul. 153 of 1928:1-26. (Fig, pp. 6-10.) Cost of cultivation in tabular form, returns, annual dividends.

## Cheema, G. S., and S. R. Gandhi

1924. The sun-dried Poona fig. Agr. Jour. India 19, part 3. Also in: Trop. Agr. (Ceylon) 63:187-89. Fig growing a specialty of Poona district, with 1,054 acres; description of Poona variety.

## Christie, Alexander T.

1829. Sketches of the meteorology, geology, agriculture, botany, and zoology, of the southern Mahratta country. Edinburgh New Phil. Jour. (n.s.)7:49-65, continued. (Fig, p. 65.) Excellent figs grow in various parts of this district (Darwar, India).

## Cooke, Theodore

- 1901-1908. The flora of the Presidency of Bombay. 2 vols. Taylor and Francis, London. (Ficus carica, 2:655.) Said to be indigenous in Syria and Palestine; about 300 acres in cultivation in the Poona Protectorate.

## Cowen, D. V.

1952. Flowering trees and shrubs in India. 160 pp. (2d ed. rev.) Thacker and Co., Bombay. (Ficus carica, p. 65.)

## Crocheron, B. H., and W. J. Norton

1930. Fruit markets in eastern Asia. California Agr. Exp. Sta. Bul. 493:1-366. (Figs, pp. 261, 275, 285, 286.) Found in markets; prices.

## Crowther, J. G.

1936. Soviet science. 342 pp. Kegan Paul, Trench, Trubner & Co., London. (Figs, pp. 275, 276.) Varieties planted at Apsheron.



Cunningham, D. D.

1907. Plagues and pleasures of life in Bengal. 385 pp. John Murray, London. (Fig insects, pp. 55-86, 365-70; Ficus carica, pp. 80-81. Pls. 25-28.) Fertile seeds in figs in England; seedlings appear.

Czeczottowa, Hanna

1939. A contribution to the knowledge of the flora and vegetation of Turkey. 262 pp. Verlag des Repertoriums, Berlin-Dahlem. (Ficus carica, p. 222.) Short. In: Fedde Repert. Sp. Nov. Regni Veg. 107:134. Reference in: Bot. Centrbl. 33:13.

Dalman, G.

1908. Petra und seine Felsheiligtümer. 364 pp. J. C. Hinrichs, Leipzig. (Feigen, p. 1.) Mention only.

Dalzell, Nicholas A., and Alex. Gibson

1861. The Bombay flora. 332 + 112 pp. Educ. Soc. Press, Byculla, Bombay. (Ficus carica, Suppl. p. 80.) In gardens, but chiefly above the Ghauts, where it is cultivated extensively; fruit inferior in size and flavour to the Smyrna fig; caprifigation not practiced.

Davis, P. H.

1949. A journey in south-west Anatolia. Royal Hort. Soc. Jour. 74:104-15: (Ficus carica, p. 109.) Frequent at Khycegiz.

Delitzsch, Friedrich

1896. Assyrisches Handwörterbuch. 730 pp. J. C. Hinrichs, Leipzig. (Fig, p. 716.) Cited by Ravasini, 1911, Die Feigenbäume Italiens.

Diefenbach

1902. Die Landwirtschaft der Israeliten Feld und Wald. Cited by Ravasini, 1911, Die Feigenbäume Italiens.

Doughty, Charles M.

1921. Travels in Arabia Deserta. With an introduction by T. E. Lawrence. Random House, New York. Page 486, myrtle-leaved kind of great wild barren fig tree. Page 488, dined off those pleasant wild fruits, figs no greater than hazel nuts and the taste not unlike wood strawberries; but the rind is rough and they scorch the tongue and throat. Bedouins would not pluck them. Page 495, wild fig trees (hamat) bear a very small leaf like the garden mulberry; the sap is so acrid, that touched to the skin it will raise a blister.

Dubois de Montperoux, Frédéric

- 1839-1843. Voyage autour du Caucase. 6 vols. Libr. de Gide, Paris. (Figues, 3:354.) Figs and pomegranates of secondary importance at Erivan; better at Tiflis.

## Dymock, William

1885. The vegetable materia medica of Western India. (2d ed.) 786 pp. Education Soc. Press, Bombay. (Ficus carica, p. 745.) Fig cultivated but does not produce fine fruit.

## Eig, Alexander, M. Zohary, and N. Feinbrun

1931. The plants of Palestine; an analytical key. (In Hebrew.) 426 pp. The Univ. Press, Jerusalem. (Ficus, p. 94.) Two kinds of common figs; also F. sycomorus and F. pseudo-sycomorus.

## Elliott, Walter

1859. Flora Andhrica, a vernacular and botanical list. 2 parts. Graves and Co., Madras. (Ficus carica, p. 15.) Listed only as Anjuru.

## Elphinstone, Mountstuart

1845. An account of the Kingdom of Cauleul and its dependencies in Persia, Tartary, and India. 675 pp. Longman et al., London. (Fig, p. 394.) Hills north of Gurmseer covered with woods of wild fig and other fruit trees.

## El Taher, N.

1941. The importance of the fig, its drying and packing. Palestine Agr. Bul. 1941:208-11. Abstracted in: Hort. Abs. 12:184. Methods of drying and packing.

## Evreinoff, V.-A.

1940. Le figuier et le noisetier en Turquie. Revue Hort. [Paris] 112:44. Short account.

## Fedorov, M. A.

1949. The commercial culture of figs. (In Russian.) Sad i Ogorod 1949, No. 8:45-50. Abstracted in: Hort. Abs. 20: 10. Also in: Fruits d'Outre-Mer 5:156. Climate, culture, drying.

## Ferguson, William

1859. Scripture botany of Ceylon. Being familiar illustrations of those plants mentioned in the Bible and which are indigenous to, or are related to genera and species growing or known to Ceylon. 40 pp. Colombo. (The fig tree, pp. 10-11.)

## Fesca, M.

1893. Beitrage zur Kenntniss der Japanischen Landwirtschaft. II. 929 pp. Kaiser. Geol. Reichsanstalt, Tokio. (Feigen, Ichijiku, pp. 610-11.) Fig tree not so good in climate of Japan; short account.

Field, Henry

1939. Contributions to the anthropology of Iran. Field Mus. Nat. Hist., Chicago Anthropol. Ser. 29, No. 1. Pub. 458:1-706. (Fig, p. 24, 229.) Fig included in list of fruits; trees wild on hillsides.

Firminger, W. K.

1904. Firminger's manual of gardening for India. 710 pp. Thacker, Spink and Co., Calcutta. 5th ed. by J. Cameron. (1st ed.) 1863. (Ficus carica, pp. 211-13.) Thrives in most parts of India; poor in Calcutta.

Flippance, F.

1939. Hong Kong Supt. Bot. and For. Dept. Ann. Rept. 1938:1-17. (Figs, p. 10.) Produced a heavy crop but the flavor was somewhat insipid.

Forbes, Francis B., and William B. Hemsley

- 1886-1905. An enumeration of all the plants known from China proper, Formosa, Hainan, Corea, the Luchu Archipelago, and the island of Hongkong, together with their distribution and synonymy...Longmans, Green & Co., London. 3 vols. (Linnean Soc. Jour. Bot. Vols. 23, 26, 36.) (Ficus carica, 26:458.)

Forbes, Frederick

1839. A visit to the Sinjar Hills in 1838. Royal Geog. Soc. London Jour. 9:409-30. (Fig, pp. 411, 413, 414, 416, 418, 419, 422, 423, 427.) Trees in gardens; at village Bukrah, side of hill to very summit covered with vineyards and fig gardens; a continued plantation of fig trees near Bukrah; extensive fig gardens in the valley of Samukhan; from Bukrah to 'Amr figs occupy entirely the sides of hills; fruits finer than in any other part of Al Jezirah or Kurdistan.

Forsyth, T. D.

1875. Report of a mission to Yarkand. 573 pp. Foreign Dept. Press, Calcutta. (Fig, p. 79.) Figs raised at Kashgar.

Gamble, J. S.

1881. A manual of Indian timbers. 522 pp. Supt. of Gov't. Printing, Calcutta. (Ficus carica, p. 333.) Cultivated up to 5,000 feet elevation but product generally poor.

Gammie, G. A.

1929. Field, garden and orchard crops of the Bombay Presidency. Bombay Dept. Agr. Bul. 30 of 1908 (revised 1928):1-138. (Fig, p. 88.)

Gandhi, S. R.

1924. Investigations in fig culture and treatment. Bombay Dept. Agr. Bul. 117 of 1924:1-27. 5 figures. Soil and climate, culture, notching branches, drying.

Gildemeister, J.

1885. Beitrage zur Palastinakunde aus arabischen Quellen. Deut. Ver. z. Erforsch. Palastina's, Ztschr. (Leipzig)8:117-45. (Fig exported to Syria and Egypt, p. 138.)

Gillman, Henry

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts., Govt. Pr. Office. Washington, D.C. (Palestine, pp. 739-41.) Also in: California State Bd. Hort. Rept. 1890:356-57.

Graham, John

1839. A catalogue of the plants growing in Bombay and its vicinity. 254 pp. The Government Press, Bombay. (Ficus carica, p. 191.) In gardens all over India.

Grant, J. W., and A. N. P. Williams

1936. Burma fruits and their cultivation. Burma Dept. Agr. Bul. 30:1-103. Illus. (Ficus carica, p. 58.) Brief; none dried.

Grasovsky, A.

1924. The preparation of dried figs. Palestine Dept. Agr. and Forests Agr. Leaflets, Ser. IV, Hort. No. 2:1-5. (Mimeo.) Drying, dipping, sulphuring.

1926. Horticulture. Zionist Organ. Inst. Agr. and Nat. Hist. Agr. Exp. Sta. First Rept. 1921-1926:80-83. (The fig, p. 82.) Short.

1931. Jerusalem Horticultural Station, 1930. Palestine Dept. Agr. and Forests Rept. 1927-1930:35-37. (Fig varieties, p. 37.) Introduced and local kinds.

Grasovsky, A., and J. Waitz

1927. Palestine fruit and the English market. Palestine and Near East Econ. Mag. 2:358-60. (Dried figs, p. 358.) Brief statistics; 90 per cent of imports from Turkey.

1932. Fig growing in Palestine, 1930. Palestine Dept. Agr. Leaflets, Ser. 4, No. 28:1-36. 21 illus. Culture and varieties.

Guest, Evan

1933. Notes on plants and plant products with their colloquial names in Iraq. Iraq Dept. Agr. Bul. 27:1-111. (Fig, p. 34.) Tin, Injir, Hanjir. Wild in valleys of Kurdistan and in foothills; also cultivated.

Gukasjjan, A. S.

1949. /Figs and pomegranates in southern Kazakhstan.7 (In Russian.) Sad i Ogorod (Orchard and Garden) No. 10, pp. 46-48. Abstracted in: Hort. Abs. 20:82. Chief characters of six varieties of figs tabulated.

Haines, H. H.

1924. The botany of Bihar and Orissa. 6 parts. 1350 pp. Adlard and Son, London. (Ficus carica, p. 1248. No. 4506, Patna, May 8, 1812. Cultivated. Herbarium at Kew.)

Hamilton, William J.

1842. Researches in Asia Minor, Pontus and Armenia. 2 vols. John Murray, London. (Fig, 1:242, 247, 249, 530, 536, et al.) Figs ripen late at Trebizond; abundant at Platana; indigenous at Cape Yoros; crop failure at Aidin, only 5,000 cantars instead of 100,000, the average amount, sent to Smyrna; various other references.

Handcock, Percy S. P.

1912. Mesopotamian archaeology. 423 pp. G. P. Putnam's Sons, New York. (Fig, pp. 13, 217, 370.)

Hansen, C. C.

1910. Foodstuffs in Siam. U. S. Daily Cons. and Trade Repts. 3679:1-12. (Figs.)

Hart, Henry C.

- 1880-1886. The flora and fauna of Sinai and South Palestine. Royal Irish Acad. Trans. 28:373-452. (Ficus carica, pp. 402, 414, 417.)

Hasselquist, Fredrik

1757. Iter Palatinum, eller Resa til Heliga Landet, 1749-1752. 619 pp. Lars Salvii, Stockholm. (Caprificus, p. 29; Ficus sycomorus, pp. 495-99; F. carica, p. 512.) Technical description of fig insect, Cynips caricae, pp. 424-26.

Hayes, W. B.

1945. Fruit growing in India. 283 pp. Kitabistan, Allahabad. (Fig, pp. 203-9.) Climate, propagation, culture, pests, types of figs.

Henderson, George, and Allan O. Hume

1873. Lahore to Yarkand. 370 pp. L. Reeve and Co., London. (Fig, p. 334.) Several excellent varieties; fruit large and often pure white as if it had been blanched.

Herzfeld, Levi

1879. Handelsgeschichte der Juden des Alterthums. 344 pp. J. H. Meyer, Braunschweig. (Feigen, p. 97.) Cited by Felix Goldmann, 1911, La figue en Palestine, p. 40.



Heyd, Wilhelm von

1879. *Levante Handels im Mittelalter*. 2 vols. G. G. Cotta, Stuttgart. (Fig, 2:603.) Cited by Ravasini, 1911, *Die Feigenbaume Italiens*.

Hirst, F.

1933. Report on fruit and vegetable preservation and by-products in Palestine with special reference to canning. 24 pp. Bristol Univ. Fruit and Vegetable Preserv. Res. Sta., Ser. 4, No. 32. (Figs, pp. 10-11.) Variety descriptions after those of Gracovsky and Weitz, 1932.

Hooker, Joseph D.

1854. Himalayan journals or notes of a naturalist in Bengal. 2 vols. John Murray, London. (Ficus, 1:157.) Prevalence of fig species a remarkable feature up to nearly 10,000 feet.

Hooper, David, and Henry Field

1937. Useful plants and drugs of Iran and Iraq. Field Museum Nat. Hist., Chicago Bot. Ser. 9(3). Pub. 387:1-168. (Ficus carica, p. 119.) Brief.

Howard, A.

1906. First report on the fruit experiments at Pusa. Pusa Imp. Inst. Agr. Res. Bul. 4. 40 pp. Abstracted in: Exp. Sta. Rec. 19:338. Fig listed with other fruits.

Hsu, Yun-Chun

1950. A preliminary study of the forest ecology of the area about Kunming. Stanford Univ., Dudley Herb. Contrib. 4(1):1-12. (Ficus carica, p. 5.) Trees rare.

Huc, Evariste R.

1850. *Souvenirs d'un voyage dans la Tartarie, le Thibet, et la Chine, 1844-1846*. 2 vols. Paris. Cited by Solms-Laubach, 1882, *Die Herkunft*. Fig not especially mentioned among the fruits of Tibet.

Hughes, A. W.

1877. *The country of Beloochistan*. 294 pp. Geo. Bell and Sons, London. (Fig, pp. 19, 21.) Fig tree at Quethah.

Iljinski, A., and D. Krylov

1937. Subtropical fruit trees in southern Daghestan. (In Russian with English summary.) *Sovetsk Subtrop.* (6):44-51. June.

Kanjilal, P. C.

1925. Descriptive list of trees and shrubs of the Eastern Circle, United Provinces. Part II. 122 pp. Dehra Dun. (Ficus palmata, p. 93.) Trees all over the circle, generally near villages.

## Kanjilal, Upendranath

1901. Forest flora of the School Circle, N. W. Provinces. 390 pp. Supt. Gov. Printing, Calcutta. (Ficus palmata, p. 320.) Ficus carica, closely allied; cultivated for its fruit.

## Kashyap, Shiv Ram

1936. Lahore district flora. 285 pp. Rev. and completed by Amar Chand Joshi. Univ. of the Punjab, Lahore. (Ficus carica, p. 237.) Very similar to and perhaps not specifically distinct from F. palmata.

## Kirtikar, Kanhoba R., et al.

1918. Indian medicinal plants. 2 parts. 1419 pp. Sudhindra Nath Basu, Bahadurganj, India. (Ficus palmata Forsk. Syn. F. carica Linn., pp. 1200-01.) F. palmata, the Indian representative of F. carica.

## Klaproth, Julius

1831. Description du Tibet traduite partiellement du chinois en russe par le Père Hyacinthe Bitchourin. Paris. See p. 139. Cited by Solms-Laubach 1882, Die Herkunft. Question which Chinese name Père Hyacinthe substituted for "fig".

## Klein, Samuel

1917. Weinstock, Feigenbaum, und Sykomore in Palastina. Wien. Cited by Im. Low, 1924-34.

## Kneuker, J. Andreas

- 1903-1904. Botanische Ausbeute einer Reise durch die Sinai Halbinsel. Allg. Bot. Ztschr. Karlsruhe 9:125-29, 146-51, 165-67, 184-89, 203-4; 10:4-16. (Ficus carica rupestris, p. 151.) Found at elevation of 1900 meters.

## Kocetova, N. P.

1951. /A young-growth method of growing the fig./ (In Russian.) Sad i Ogorod 1951, No. 8:48-50. Abstracted in: Hort. Abs. 22:27.

## Köppen, Fr. Th.

- 1888-1889. Geographische Verbreitung der Holzgewächse des europäischen Russlands und des Kaukasus. 2 vols. St. Petersburg, K. Akad. der Wiss. Beiträge zur Kenntniss des Russischen Reiches und der Angrenzenden Länder Asiens (3d ser.) Vols. 5 and 6. (Ficus carica, 6:19-22.) Spontaneous only in Crimea and Caucasus.

## Kotschy, Theodor

1858. Reise in den cilischen Taurus über Tarsus. 443 pp. J. Perthes, Gotha. Verbreitung der Pflanzen, pp. 378-439. (Ficus carica, p. 407.) Cultivated and spontaneous in various localities.

Kulkarni, L. B.

1913. Experimental fig drying at Saswad. Agr. Jour. India 8:83-84. Color pl. 22.

Kushnir, T.

- /On the origin of the figs./ (In Hebrew.) Hassadeh 29(3, 4). Cited by Jos. Carmin, 1954.

Kuznetsov, V. V., et al.

1938. /Fruit strains in the Uzbekistan./ (In Russian.) Trudy Samarkand Agr. Exp. Sta. 3:1-174. Abstracted in: Hort. Abs. 9:206. Figs 1 per cent of total.

Lajard, Felix

- (?) Culte de Mithra. Culte de Vénus. See: Recherches sur le culte public et les mystères de Mithra. 692 pp. Impr. Royale, Paris.

Lanessan, J. L. de

1886. Les plantes utiles des Colonies françaises. 990 pp. Impr. Nationale, Paris. (Ficus carica, p. 742.) Mention only as rare in Cochin, China.

Laufer, Berthold

1919. Sino-Iranica. In: Field Museum Nat. Hist. Chicago Anthropol. Ser. Vol. 15:185-630. (Ficus carica, pp. 410-414.) Tree not indigenous to China; distribution; caprification not practiced.

Layard, Austin H.

1852. Discoveries among the ruins of Nineveh and Babylon. Various editions 1849 to 1875. (Fig drawings in crude form, pp. 231-32.) According to E. Bonavia, 1894, Layard's drawings of Nineveh show some fig trees with digitate, others with palmate leaves, as in figure 8.
1853. The monuments of Nineveh. 100 pls. John Murray, London. (Ficus carica, Ser. 2, pls. 15, 20, 22.) Conventional designs of sacred trees.

Lengyel, Emil

1941. Turkey. 474 pp. Random House, New York. (Fig, p. 27.) "In the sunny orchards of the coastal area the Turkish farmer grows figs which are thick and juicy".

Lennie, Miss A. B.

1936. Agriculture in Mesopotamia in ancient and modern times. Scot. Geogr. Mag. 52:33-46. (Fig, p. 42.) Fig and pomegranate most frequent fruit trees.

Le Strange, Guy

1890. Palestine under the Moslems. 604 pp. Com. of the Palestine exploration fund, by A. P. Watt, London. (Fig, p. 16.)

Lewis, Frederick

1934. The vegetable products of Ceylon, a guide to their identification and economic uses. 402 pp. Assoc. Newspapers of Ceylon, Colombo. (Ficus carica, p. 347.) Fruits not much relished in Ceylon; the wood, treated with a mixture of fine emery powder and oil, affords a useful razor strop.

Lisboa, J. C.

1886. Useful plants of the Bombay Presidency. Pres. Gazetteer, Bombay. 25:1-307. (Ficus carica, pp. 130, 172.) Cultivated almost all over India.

Löhr, Max

1926. In: Max Ebert. Real-lexikon der Vorgeschichte 4:171. W. de Gruyter & Co., Berlin. Excavations at Gezer have shown culture of the fig, vine, olive and pomegranate, 2500 B.C.

Loureiro, Joannis

1793. Flora Cochinchinensis: sistens plantas in regno Cochinchina nascentes. 2 vols. Haude et Spener, Berolini. (Ficus carica, 1:816.) Cultivated in China; rare in Cochinchina.

Low, Immanuel

- 1924-1934. Die Flora der Juden. 4 vols. in 5. R. Löwit, Wien und Leipzig. (Ficus carica, 1:224-54; 4:33, 91, 494.) Excellent on literature, history, caprification, uses, products, poetry, folklore.

Lowdermilk, W. C.

1944. Palestine, land of promise. 236 pp. Harper & Bros., New York. (Fig, pp. 97, 98.) No marked progress in culture; varieties not of the best.

Macmillan, H. F.

1905. Fruit cultivation in Ceylon. Trop. Agr. (Ceylon) 25:486-94. Pl. 1. (Fig, pp. 486, 489, 493.) Elevation of 4,000-6,000 feet, trees give moderate crops in dry seasons; fruit rather juiceless and insipid.

Manchester, H. H.

1922. A pictorial history of the garden. Garden Mag. 34:237-40, 311-14; 35:113-15, 257-59. Illus. Base relief of time of Sennacherib shows fig.

Marschall von Bieberstein, F. A.

- 1809-1819. Flora Taurico-Caucasica. 3 vols. Typis Acad., Charkouiae. (Ficus carica, 2:452.)

Mason, F. R.

1943. Palestine Dept. Agr. and Fisheries Ann. Rept. 1941-42: 1-13. No. 10 of 1943. (Fig, p. 8.) Fig drying making rapid progress in the Ramallah and Safad districts; increasing interest. See also: Rept. 1942-43:1-8. (Fig, p. 4.) Crop generally good and prices remunerative. Rept. 1943-44: 1-9. (Fig, p. 5.) Crop only fair; prices high; fresh figs used in jam factories. Rept. 1944-45:1-16. (Fig, p. 8.) Orchards in poor condition and gave low yields; scale in many orchards and fruit fly caused some loss. Rept. 1945-46:1-48. (Fig, pp. 26, 33.) Crop only fair; mostly used for drying and jam making.

Meiendorff, Egor F.

1826. Voyage d'Orenbourg à Bokhara. 508 pp. Dondey-Dupre Père et Fils, Paris. (Fig, p. 203.) Included in list of fruits.

Meissner, Bruno

- 1920-1925. Babylonia and Assyria. 2 vols. C. Winter, Heidelberg. (Feigen, 1:184, 207, 236, 414; 2:304, 381.) Found in early Sumerian times 2900 B.C.; used medicinally.

Merrill, E. D.

1923. An enumeration of Philippine flowering plants. 4 vols. Bureau of Printing, Manila. (Ficus carica, 2:47.) Occasionally cultivated in gardens.

Metaxas, C. C.

1888. Le figuier en Mesopotamie. Rev. Hort. (Paris) 60:321-22. Short; varieties listed.

Meyer, F. N.

1911. Agricultural explorations in the fruit and nut orchards of China. U. S. Bur. Plant Indus. Bul. 204:1-62. (Fig, p. 47.) In north China only as an exotic in pots; in milder parts large trees found in open; fruits not favored by Chinese.

Mieville, M. R.

1923. La culture des arbres fruitiers d'Europe sur les Hauts-Plateaux de l'Indochine. Rev. de Bot. Appl. et d'Agr. Colon. 3, Bul. 17:38-55. (Figuier, pp. 39, 41, 42, 45, 48, 50.) Trees found up to 1700 meters.

Milsum, J. N.

1919. Fruit culture in Malaya. 108 pp. Federated Malay St. Dept. Agr. Bul. 29. (Ficus carica, p. 89.) Introduced into Singapore; good fruit often produced but tree better in dry climate; Chinese frequently grow tree in pots.



Morier, James

1812. A journey through Persia, Armenia and Asia Minor to Constantinople in the years 1808 and 1809. 438 pp. Longman et al., London. (Fig, p. 92.) Wild fig on plain near Shapour.

Muhammad Ibn Batuta

1829. The travels of Ibn Batuta. Transl. by the Rev. Samuel Lee. 243 pp. Oriental Transl. Committee, London. Cited by Karl Ritter, 1844.

Naik, K. C.

1949. South Indian fruits and their culture. 477 pp. P. Varadachary and Co., Madras. (Fig, pp. 384-89. Color pl. 9.) Climate and soil, varieties, propagation, planting, culture, caprification. Poona fig illustrated in color.

Nairne, Alexander K.

1894. The flowering plants of western India. 401 pp. W. H. Allen & Co., London. (Ficus carica, p. 308.)

Olmstead, A. T.

1923. History of Assyria. 695 pp. Charles Scribners Sons, New York. (Fig, see index.) Various references; hieroglyphics.

Oppenheimer, H. R.

1951. Summer drought and water balance of plants growing in the Near East. Jour. Ecol. 39:356-62. (Fig tree, p. 356.) Fig and almond "spendthrifts", suffering large water losses even at end of rainless summer.

Palestine Products Co.

1925. New Palestine 6(3):230. (Advertisement including figs.)

Palgrave, William G.

- 1865-1866. Narrative of a year's journey through central and eastern Arabia. 2 vols. Macmillan and Co., London. (Fig, 1:59, 85, 327, 342.) Fig trees abound, raised on a large scale.

Pallas, Petrus S.

1789. Flora Rossica. 2 parts. Io. G. Fleischer, Francofurti. (Ficus carica, 2:82.) In gardens of Caucasus and spontaneous in Georgia and Taurica.

Parker, John, and Charles Smith

1940. Modern Turkey. 259 pp. George Routledge & Sons, London. (Figs, pp. 92, 93.)

Parker, R. N.

1924. A forest flora for the Punjab, with Hazara and Delhi. (2d ed.) 591 pp. Supt. Gov. Printing, Lahore. (Fig, p. 485.) Resembles Ficus palmata very closely and is perhaps not specifically distinct; cultivated but fruit requires to be well protected from birds.

Parsons, T. H.

1937. Cultivation of fruits in Ceylon with cultural details. Ceylon Dept. Agr. Bul. 90:1-33. (Fig, pp. 23-24.) Can be grown successfully in the drier zones; trees medium deciduous; English varieties recommended.

Patil, P. C.

1922. The crops of the Bombay Presidency. Bombay Dept. Agr. Bul. 109 of 1901. 132 pp. Govt. Central Press, Bombay. (Figs, pp. 45, 48.) About 443 acres mostly in the Poona district.

Fayne Smith, Robert

1879. Thesaurus syriacus. 2 vols. Typogr. Clarendoniana, Oxonii. (Fig, p. 1273.) Cited by Im. Low, 1924-1934. Milk of fig leaves.

Petrov, M. P.

1939. On wild fruit trees of the Turkmenian highlands. Priroda 1939:55-68. (Ficus carica.) No line of demarcation between wild and cultivated forms.

Petzholdt, Alexander

- 1866-1867. Der Kaukasus. 2 vols. Hermann Fries, Leipzig. (Feigen, 2:238.) Figs and pomegranates are of secondary importance at Erivan. Quoted from Dubois de Montperoux 1839-1843.

Philby, H. St. J. B.

1922. The heart of Arabia: A record of travel and exploration. 2 vols. Constable and Co., London. (Fig, 2:171, 267.) Mentioned only.

Piddington, Henry

1832. English index to the plants of India. 235 pp. Baptist Mission Press, Calcutta. (Ficus carica, p. 37.) Native names as Udmvara, Doomoor, Simicattie.

1846. The fig. India (Calcutta) Agr. and Hort. Soc. Monthly Proc. 5:xxiv.

Popov, M. G.

1929. Wild growing fruit trees and shrubs of Asia Media.<sup>7</sup> Bul. Appl. Bot., Genet., and Plant Br. 22:241-472. (Ficus, pp. 272, 307-27. Figures 27-38.) English summary, pp. 472-83. Ficus carica growing wild in Kopet-Dag and the Tajik mountains; three forms distinguished.

Pottinger, Henry

1816. *Travels in Beloochistan and Sinde*. 423 pp. Longman et al., London. (Fig, pp. 36, 234, 324.) Mentioned with other fruits.

Prayag, S. H.

1921. The Ganeshkhind Botanical Garden, its genesis and development. Bombay Dept. Agr. Bul. 104 of 1920:1-47. (Figs, pp. 25-26.) Ripe fruit from December on but cloudy weather in January delayed maturity and fruits dropped.

Radde, Gustav

1867. *Reisen und Forschungen im Kaukasus im Jahre 1865*. Petermann's Mitt. aus Justus Perthes' Geog. Anst. 13:12-19, 92-103. (Feigenbäume, pp. 18, 95.)

1881. *Reise nach Talysch, Aderbeidshan und zum Sawalan, 1879-1880*. Petermann's Mitt. aus Justus Perthes' Geog. Anst. 27:47-55, 169-76, 261-70. (Feigen, pp. 50, 262, 265.) Trees found near Tiflis at 3,000 feet elevation.

Rao, C. K. Subba

1906. Notes on fig cultivation in southern India, and peculiarities in viticulture in Penukonda in the Anaortapur District. Madras Dept. Agr. Bul. 57:135-43. Fig trees very abundant near Kandahar, Afghanistan, where it occurs wild; two varieties recognized in Bangalore and Bellary; culture; crops.

Ravasini, Ruggero

1913. Ueber das von Dr. Heinrich Frh. V. Handel-Mazzetti in Mesopotamien und Kurdistan gesammelte Ficus-material. K. K. Naturhist. Hof-museums Wien Ann. 27:507-14. Taf. 23, 24. Various forms of F. carica.

Ray, John

1738. *Travels through the Low-countries*. 2 vols. (2d ed.) J. Walthoe, London. Vol. 2 has title, "A catalogue of curious travels and voyages". First issued 1693. (Ficus, 1:51-53; 2:7, 24.)

Regel, Albert

1880. Turfan. Petermann's Mitt. aus Justus Perthes' Geog. Anst. 26:205-10. (Fig, p. 205.) Mention only with pomegranate and quince.

1887. *Fruits of Turkestan*. Montreal Hort. Soc. Ann. Rept. 12. (Fig, p. 68.) Cited by Budd and Hansen 1909, *American Horticultural Manual*, 1:210.

Regel, Eduard

1874. Notizien. Gartenflora 23:213. Ficus carica grows to be a large tree along Black Sea.

Reinaud, Joseph T.

1845. Relation des voyages. 2 vols. Inprim. Royale, Paris.  
(La figue en Chine, p. 22.) Mention only.

Revusky, A.

1936. Jews in Palestine. 379 pp. The Vanguard Press, New York.  
(Fig, p. 47.)

Reynier, L.

1819. De l'économie publique et rurale des Perses et des Phéniciens. 416 pp. J. J. Paschoud, Genève. (Figuier, p. 290.) Caprification mentioned.

Rich, J.

- Narrative of Kurdistan. See Vol. 1:162, 167. Cited by  
Karl Ritter, 1884, Die Erdkunde.

Riddell, R.

1872. A manual of gardening for western and southern India.  
(4th ed.) 229 pp. Higginbotham and Co., Madras. (Ficus carica, p. 125.) Bears fruit almost whole year around;  
two varieties.

Ridley, H. N.

1902. Fruits of the Malay Peninsula, wild or cultivated.  
Federated Malay States Agr. Bul. 1:371-81, 429-35, 499-503, 531-37. (Fig, p. 534.) Long been grown in the Botanic Garden; plants make little growth but live and produce a few fruits.

Ridley, M.

1883. Lucknow Hort. Gardens Rept. 1882-83:1-18. (Figs, p. 3.) Trees planted and doing well. See also: Rept. 1884-85: 1-13. (Imported figs, p. 3.) Lee's Prolific fruited; excellent flavor. Rept. 1885-86:1-16. (Figs, p. 3.) Figs spoiled by rain; local kind, Barries, earlier and escaped rain.

Ritter, Karl

1844. Über die Asiatische Heimath und die Asiatische Verbreitung sphære der Platane, des Oliven- und des Feigenbaums, der Granate, Pistacie, und Cypresse in der alten Welt. Pp. 172-81. Bericht, Berlin. Reference in: Royal Soc. Catalogue 5:216. 1871.

1866. The comparative geography of Palestine and the Sinaitic peninsula. Transl. by Wm. L. Gage. 4 vols. D. Appleton and Co., New York. (Fig, 4:181, 184.) Trees universal; towards Samaria tracts so extensive that eye cannot take them all in at once.

Roxburgh, William

1832. *Flora Indica*. 3 vols. W. Thacker and Co., Calcutta.  
(*Ficus carica*, 3:528.) Cultivated; leaf much less divided than on trees from England.

Royle, John F.

1839. Illustrations of the botany and other branches of the natural history of the Himalaya Mountains and of the flora of Cashmere. 472 pp. W. H. Allen, London. (*Ficus carica*, pp. 10, 13, 337.) Common in gardens, and might no doubt be improved.

Russell, Alexander

1794. The natural history of Aleppo. 2d ed. by Pat. Russel. 2 vols. G. G. and J. Robinson, London. (Fig, 1:51, 85-86.) Markets plentifully supplied with figs; caprifigation practiced and described.

Ryerson, K. A.

1928. Report of the experts submitted to the joint Palestine Survey Commission. 741 pp. Daniels Pr. Co., Boston.  
(Fig, pp. 344-49.) Extent of the industry; varieties.
1929. Palestine rubs its eyes. Los Angeles Times Farm and Garden Mag., Dec. 22, page 3. Illus. (Figs important food.)

Sayed, I. A.

1937. Poona Agr. College Mag. 28:144-47. Fig included.

Scharrer, H.

1883. *Ficus carica* in Transkaukasien. Gartenflora 32:106-7.  
Distribution, resistance to cold.

Schindler, A. H.

1879. Reise in nördlichen Persien. Gesellschaft f. Erdkunde in Berlin Ztschr. 14:112-24. (Feigen, p. 122.)

Schubert, G. H. von

- 1838-1839. Reise in das Morgenland in den Jahren 1836 und 1837. 3 vols. J. J. Palm und Ernst Enke, Erlangen. (Feigen, 3: 80.) Camped for the night under a sycomore fig tree near Gilgal.

Silva, J. Maria A. da

1904. Repositorio de nocoos de botanico applicada e productos vegetaes mais conhecidos e usados na China. 332 pp.  
Noronha & Co., Hongkong. (Figo, p. 136.) Grown at Macao.



Singh, H. B.

1945. Some useful wild plants of Delhi Province. Indian Jour. Agr. Sci. 15:297-308. (*Ficus carica*, p. 300.) Figs axillary, solitary or in pairs, globose or pear-shaped, yellowish-purple when ripe.

Singh, Lal S. B.

1940. Climatology of the Punjab fruits. Punjab Fruit Jour. Ann. No. for 1940:640-47. Abstracted in: Hort. Abs. 11:58.

Smith, Frederick P.

1911. Chinese materia medica; vegetable kingdom. Revised by G. A. Stuart. 558 pp. American Presby. Press, Shanghai. (*Ficus carica*, pp. 174-75.) A small shrub, bearing fruit very much smaller and inferior to the Persian varieties.

Smith, W. S.

1940. The fig in rural areas. United Prov. (India) Dept. Agr. Fruit Ser. Bul. 20:1-6. History, culture, conclusions.

Speede, G. T. F.

1842. The Indian hand-book of gardening. 353 pp. plus suppl. of 249 pp. W. Thacker and Co., Calcutta. (Fig, pp. 220-21.) Included in pulpy fruits; native name Goodgooda, or Goodgur Phul; propagation, culture; only one variety known in India and that is rather a small kind.

Spry, Henry H.

1841. Suggestions received by the Agricultural and Horticultural Society of India for extending the cultivation and introduction of useful and ornamental plants. 208 pp. Bishop's College Press, Calcutta. (*Ficus carica*, pp. 181, 184.) Listed only.

Stacy, L. R.

1841. A series of observations on the climate and horticulture of Candahar from January to August, 1840. India Agr. and Hort. Soc. Trans. 8:327-32. (Fig, p. 331.) Mention only.

Stewart, John L.

1869. Punjab plants. 269 pp. Govt. Press, Lahore. (Fig, p. 211.) Not uncommonly cultivated; seen as high as 5,000 feet on the Ravi; occasionally it reaches 7 feet in girth.

Storey, T. H.

1901. Gardens of His Highness Maharana Fateh Singhji Bahadur-- of Udaipur. Mewar Ann. Rept. 1898/99-1900/01:3-6. (Fruit garden; figs, p. 4.) See also: Rept. 1901/02:10-11; Rept. 1902/03:7; Rept. 1903/04:6; Rept. 1906/07:9; Rept. 1910/11:7.

Stuart, (Constance) M. V.

1913. Gardens of the great Mughals. 280 pp. Adam and C. Black, London. (Figs, p. 70.) Emperor Jahangir at Ahmedabad went to a little garden "which had exceedingly good figs" (1605-1628).

Sukh Dyal, Lala

1942. Tropical fruits. 257 pp. Chemical Publ. Co., Brooklyn, New York. (Figs, pp. 46, 199.) Climate; Poona variety recommended; brief methods of drying.

Tabor, Grace

1924. Gardening in Palestine. Woman's Home Comp. (Dec.), p. 36. Notes on caprification; Bible references.

Tennent, James E.

1860. Ceylon. 2 vols. Longman et al., London. (Fig, 1:120.) Successfully reared in gardens.

Thackeray, W. M.

1844. Notes of a journey from Cornhill to Grand Cairo. In: Complete works of Thackeray. 30 vols. 1904 ed. Thomas Crowell and Co., New York. See: 12:149-336. 1898 ed. Harper and Bros., New York. 13 vols. See: 5:585-733. Comments on fig packing in Smyrna.

Thompson, R. C.

1924. The Assyrian herbal. 294 pp. Luzac and Co., London. (Fig, pp. 176-78.) Identity of plant referred to in Assyrian.

Thornburg, Max W., et al.

1949. Turkey, an economic appraisal. 324 pp. Twentieth Century Fund, New York. (Fig, pp. 44, 73.) In 1946 figs were 4.1 per cent of exports.

Todd, E. d'Arcy

1841. The productions and floriculture of the Valley of Herat. India Agr. and Hort. Soc. Trans. 8:251-52. (Fig, p. 252.) Mention only.

Trimen, Henry

- 1893-1931. Handbook to flora of Ceylon. 6 vols. Dulac and Co., London. (Ficus, 4:83-96; 6:268.)

Tristram, H. B.

1884. The survey of western Palestine. The fauna and flora of Palestine. 455 pp. Palestine Exploration Fund, London. (Ficus carica, p. 411.) Trees wild from Lebanon to Dead Sea; cultivated everywhere; related species.

Troup, R. S.

1921. The silviculture of Indian trees. 3 vols. The Clarendon Press, Oxford. (Ficus carica, 3:874.) Cultivated in north India both in the plains and outer hills up to about 5,000 feet, and in the Deccan especially around Poona; fruit ripens from May to August, protected from birds, fruit-bats and insects sometimes by small baskets around the fruits.

Tytler, Robert

1829. Replies to the queries in Appendix No. 3. India Agr. and Hort. Soc. Trans. 1:17-31. (Figs at Allahabad, p. 28.) Mention only.

Vavilov, N. I.

1931. Role of Central Asia in origin of cultivated plants. Bul. Appl. Bot., Genet., and Plant Br. 26:31-44. (Fig tree, p. 38.) Whole assortment of apricot, pomegranate and fig trees penetrated into Chinese Turkestan from Fergana.

Veniukov, Mikhail I.

1874. Die Russisch-Asiatischen Grenzlande. Aus dem russischen Übertragen von Krahmer. 511 pp. Fr. Wilk. Grunow, Leipzig. (Fig, mentioned in footnote, p. 464. See also p. 353.)

Vilnai, S.

1923. The fig tree in this country. Palestine. (In Hebrew.) Hassadeh 3:515-19.

Vinogradov-Nititin, P.

1929. Fruit and nourishing trees in the forests of Transcaucasia. Bul. Appl. Bot., Genet., and Plant Br. 22:3-211. (Russian with English summary.) (Ficus carica, pp. 99-102, 197, 200, 201. Figure 24.) Occurs in the lower zone of Black Sea coast and cultivated in gardens; a whole series of varieties.

Wagner, Wilhelm

1926. Die Chinesische Landwirtschaft. 668 pp. B. Parey, Berlin. (Feigen, p. 401.) Only incidentally regarded as a fruit tree.

Watson, John F.

1868. Index to the native and scientific names of Indian and other eastern economic plants and products. 637 pp. India Museum, London. (Ficus carica, p. 572.) Listed only as Tin.

Watt, George

- 1889-1896. A dictionary of the economic products of India. 6 vols. W. H. Allen and Co., London. (Ficus carica, 3:347-49.) General; compiled and quoted; habitat, culture, medicinal properties.

1908. The commercial products of India. 1189 pp. John Murray, London. (Fig, p. 537.) Several varieties cultivated especially in Baluchistan, Afghanistan, and Kashmir.
- Wellsted, James R.  
1838. Travels in Arabia. 2 vols. John Murray, London. (Fig, 1:94, 139-40, 208, 290; 2:450.)
1840. Travels to the city of the Caliphs along the shores of the Persian Gulf and the Mediterranean. 2 vols. H. Colburn, London. (Fig, 2:209.) Foliage affords a grateful shade.
- West, Edward W.  
1880. Pahlavi texts. In: The sacred books of the East. 50 vols. Oxford Press, London. (Fig, 5:101, 103.) Mentioned with other fruits.
- Wester, P. J.  
1924. The food plants of the Philippines. Philippine Isl. Bur. Agr. Bul. 39:1-236. (Fig, p. 73.) A small straggling shrub bearing inferior fruits; very susceptible to stem borers.
- Wilson, Charles T.  
1906. Peasant life in the Holy Land. 321 pp. E. P. Dutton and Co., New York. (Fig, pp. 238-40.)
- Woodrow, G. M.  
1888. Hints on gardening in India. (4th ed.) 618 pp. Education Soc. Press, Bombay. (Fig, p. 414.) Culture; ripening fruit protected by small baskets held together by skewers or by perforated tin boxes.
1891. The cultivation of oranges, lemons and figs in India. Indian For. 17:90-95. (Figs, pp. 94-95.) Variety names after villages and not distinctive; culture at Poona; good short account.
1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts. Govt. Pr. Office, Washington, D.C. (India, pp. 746-48.) Also in: California State Bd. Hort. Rept. 1890:362-63. General account.
1910. Gardening in the tropics. 6th ed. of "Gardening in India." 634 pp. Alex. Gardner, Paisley. (Fig, pp. 480-81.) Culture; fruit protected by small baskets or tin boxes; by careful attention to resting and watering, fig season may be prolonged from October till August.

## Wustenfeld, Heinrich F.

- 1848-1849. Zakariya ibn Muhammad Ben Mahmud. Cazwini's Kosmographie, von Ferdinand Wustenfeld. 2 vols. in 1. Göttingen. (Feigen, p. 251.)

## Yakut ibn 'Abd Allan, al-Hamawi

1861. Dictionnaire géographique, historique et littéraire de la Perse et des contrées adjacentes. 639 pp. l'Imprimerie Impériale, Paris. (Figues, p. 317.)

## Yersin, A. J. E.

1925. La Station d'altitude du Hon-Ba., (Annani). Rev. de Bot. Appl. et d'Agr. Colon. 5, Bul. 48:574-82. (Figuier, p. 579.) Trees produce in August; life of tree ephemeral at 1,500 meters altitude; tips die back every five or six years.
1928. Note sur divers essais agricoles entrepris aux stations d'altitude des Instituts Pasteur de l'Indochine. Rev. de Bot. Appl. et d'Agr. Colon. 8, Bul. 78:119-22. (Figuiers, p. 121.) Trees seem to prefer a poor granite soil enriched by manure; behavior at 1,500 meters.

## Youngberg, Stanton

1930. Résumé of the annual report of the Bureau of Agriculture for 1929. Philippine Jour. Agr. 1:37-121. (Fig, p. 88.) Green Ischia fig fruited for the second time.

## SMYRNA, TURKEY

## Anonymous

- 1881a. Indian Agriculturist. Cultivation of the fig in Turkey. Also in: Trop. Agr. (Ceylon) 1:61.
- 1881b. Cultivation of the fig in Turkey. Jour. Soc. Arts. Also in: Trop. Agr. (Ceylon) 1:165.
1889. Figs of commerce. California Fruit Grower 5(4):3.
1890. Smyrna fig harvest. Harper's New Mo. Mag. 80:287-96. 9 illus. A good popular account.
1891. Figs in Turkey. California Fruit Grower 8(2):22.
1901. The fig in Asiatic Turkey. California Fruit Grower 26 (697):1.
1910. The Smyrna fig. Brit. Chamber Com. Smyrna Quar. Jour. Also in: Queensland Agr. Jour. 24:33-35.



1929. Smyrna figs. Near East and India. Also in: Levant Trade Rev. 17(Nov.):372-73.
1950. Production et commerce des figues sèches en Turquie. Notiziario Ortofrutticolo. Also in: Fruits et Primeurs 20:255. Grades, packs.
- Carr, Jeanne C.  
1882. Concerning figs. Pacific Rural Press 23:146. Notes from "rare" pamphlet describing fig culture in Smyrna and the "S.H." (Samuel Hanson) brand of imported figs.
- Chandler, Douglas  
1939. The transformation of Turkey. Natl. Geog. Mag. 75:1-50. (Fig, pp. 37, 40. 1 illus.) Sanitary measures in packing.
- Cheema, G. S.  
1927. The fig industry of Asia Minor; notes of a visit in 1925. Bombay Dept. Agr. Bul. 131 of 1926:1-7. 4 illus. Areas, culture, caprification, regulations for packing. Illustrations from C. J. Giraud booklet of 1924.
- Cleary, Francis C.  
1925. The Smyrna fig industry. 40 typed pages. Thesis submitted to School of Foreign Service, Georgetown Univ., Washington, D.C., March 15. General account.
- Condit, Ira J.  
1924. The fig industry of the Smyrna District, Asia Minor. Assoc. Grower 6(8):14-15, 27. 2 illus. Also in: California Fruit News 71(Jan. 10):9, 13. 1925. Statistics, climate, business conditions, harvesting, grading and packing.
- Condit, Ira J., and Mesut Baskaya  
1948. Figs in Turkey. California Farmer 189:218, 219. Account of edible figs and caprifigs, culture, diseases, pests, and experimental work in Turkey.
- Emmett, W. C.  
1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts., Govt. Pr. Office, Washington, D.C. (Asia Minor, pp. 737-39.) Also in: California State Bd. Hort. Rept. 1890:354-56; California Fruit Grower 8:266. 1891. Short, general.
- Finucane, W.  
1898. The fig in Smyrna. Queensland Agr. Jour. 2:378-80.
- Gillespie, Julian E.  
1922. Figs of Smyrna. Assoc. Grower 3(4):19. Growers' methods, classes of fruit, estimated costs of production and packing.

Giraud, C. J., and Co.

1924. Raisins and figs. 22 pp. 33 illus. Smyrna, Turkey. (Figs, 2 pp., 8 illus.) See also: California Fruit News 74(Sept. 11):5, 9.

1925. Smyrna fruit report for last season and prospect for this. California Fruit News 72(Aug. 29):3. Production and export figures. See also: 73(June 26):7. Exports; world demand increasing.

Guest, Leslie H.

1925. Dried fruit industry of the Levant. London Daily Mail. Summary in: Western Canner and Packer 17:27. June. Filth identified with the industry according to Dr. Guest, M.P.

Hagan, H. R.

1929. Fig culture in the Smyrna fig district. California Dept. Agr. Mo. Bul. 18:491-512. Figures 69-73. Varieties, production centers, cultural methods, climate, caprification, harvesting, markets.

Hamparzum, Aram

1908. His auto-biography. Pp. 6-16. In: Something interesting about Smyrna figs. 21 pp. Illus. Hills Bros., New York. Food value of figs, methods of handling and packing, increasing demand.

Heap, G. H.

1897. Fruit culture in foreign countries. Part 3. The fig, pp. 729-69. U. S. Spec. Cons. Repts., Govt. Pr. Office, Washington, D.C. (Turkey, pp. 766-68.) Also in: California State Bd. Hort. Rept. 1890:378-80. Production, yield, curing.

Hills Brothers Co.

1908. Something interesting about Smyrna figs. 21 pp. Illus. Hills Brothers Co., New York. Pages 1-16. Auto-biography of Aram Hamparzum, packer of Camel Brand figs; pp. 16-21 from "The Liverpool Courier".

Hynes, John H.

1925. Fig industry of Smyrna and current market situation. California Fruit News 72(1933):3. Production figures.

Jukovsky, P. (P. M. Zhukovsky)

1933. Zemledel'cheskaia Turtsiia (Asiatskaia chast'---Anatolia). Moskva. 908 pp. Inzhir, Figovoe derevo, pp. 650-57.) French ed. La Turquie agricole (Partie Asiatique--Anatoliae) sous la rédaction de N. Vavilov. Préface de L. Karakhan. Moscou, Léninegrad, Les Éd. de l'État, Sect. Agr. "Selkhozgiz", 1933. (Figuier, pp. 650-57.) Short compiled account.

Koch, Felix J.

1925. Figs in the Near East. Turkey. Packing House News (Tampa, Florida), (Dec.), p. 9.

Lingeman, E. R.

1948. Economic and commercial conditions in Turkey. 228 pp. His Majesty's Stationery Office, London. Reference in: United Nations World, March 1952, p. 37.

Livengood, C. A.

1927. Smyrna fig prices. California Fruit News 75(March 12): 9.

Madden, Richard R.

1829. Travels in Turkey, Egypt, Nubia and Palestine in 1824, 1825, and 1827. 2 vols. H. Colburn, London. (Figs, 1: 147-48.) "In Smyrna the subject of figs is ever the fruitful theme of conversation. You ask about the gardens of Bournabat, and you hear that figs abound there; you inquire about the curiosities of the place, and they lead you to the fig mart; you solicit information on politics, and you are told that figs are low; and when you seek for further intelligence, you are told that figs are flat. In short, go where you will, the eternal topic is figs, figs, figs! and the very name, I apprehend, will be found written on their hearts at their decease."

Mears, Eliot G.

1924. Modern Turkey. 778 pp. The Macmillan Co., New York. (Smyrna dried figs, p. 338.) Production in 1923 about same as a decade previous.

Murray, John

1895. Handbook of Asia Minor, Transcaucasia, Persia. Ed. by Sir Chas. Wilson. 416 pp. John Murray, London. (Fig, p. 77.) Paragraph on fig trade of Smyrna.

Nadir, A., and A. M. Halit

1929. The fig industry of Smyrna. California Fig Inst. Proc. 13:33-36. Cultural methods, climate, varieties, pests.

Nielsen, N. I.

1931. Smyrna fig report. California Fruit News 83(Feb. 28):12. Statistics.

Özbek, Sabahattin

1950. Önemli meyva türlerimizde istihsalin standardizasyonu ve standart çeşitlerin meyva vasıfları üzerinde araştırmalar. 212 pp. Ankara. Turkey. (Incir, fig, pp. 12-61. Illus.) General account; varieties, standards.

Ravndal, G. B.

1926. Turkey, a commercial and industrial handbook. U. S. Dept. Com. Trade Promotion Ser. No. 26. 232 pp. (Figs, pp. 103, 178.) The Smyrna fig; caprification, production, exports.

Roeding, G. C.

1902. The fig. California Fruit Growers' Conv. Proc. 26:123-25. Culture, caprification.

Sami Bey, Djevad

1928. The Smyrna fig and raisin industry. Levant Trade Rev. 16(Jan.):17. Caprification, drying, districts, statistics.

Shavrova, H. H.

1905. Nyekotor uyd otragli Seliskavo chozyistra Malor Azie. 383 pp. Tiflis. (In Russian.) (Fig, Chap. 5, pp. 188-232. 20 plates.) Caprified and non-caprified figs; illustrations of varieties.

Smithers, Consul

1877. Fig growing in Smyrna. San Francisco Call, Feb. 17.

Stevens, Consul

1884. Fig culture in Asia Minor. U. S. Cons. Rept. No. 41 1/2: 747. Short, general.

Stiner, Harry (Harry Green)

1934. Turkish figs have gone modern. Food Indus. 6(Jan.):10, 11. 3 illus. Installation of fumigators, control of pests, and improvement of sanitation.

Treat, W. A.

1921. How figs are grown in Smyrna. Fig and Olive Jour. 6(Dec.): 10.

Ülkümen, Lütfi, and Sabahattin Üzbek

1948. Incir. 200 pp. Illus. Ankara, Turkey. (In Turkish.) Complete detailed account.

Van Lennep, R. J.

1863. On the cultivation of the fig tree in Syria. London Hort. Soc. Proc. 3:230-32. Account by Consul-General of Holland on male and female trees and caprification.

Ziya, Mehmet

1928. The fig.<sup>7</sup> (In old Turkish.) 98 pp. Illus. Chamber of Commerce, Smyrna.

## JAPAN

Anonymous

1895. /Useful plants of Japan./ 223 pp. Agr. Soc. Japan, Tokyo.  
(Ficus carica, p. 58.)

Franchet, A., and Ludwig Savatier

1875. Enumeratio plantarum in Japonia sponte crescentium. 2 vols.  
F. Savy, Paris. (Ficus carica, 1:456.) Cultivated at  
Nagasaki; name "Too kaki".

Gray, Egerton C.

1928. The food of Japan. 161 pp. The League of Nations, Geneva.  
(Ficus carica, pp. 74, 100, 129.) Analysis; name,  
"Ichigiku".

Ikeda, -T.

1909. /The fruit culture in Japan./ 110 pp. (In Japanese.)  
Seibido, Tokyo. (Fig, pp. 72, 74, 75.) Common name,  
Ichijiku; listed only.

Kaempfer, Engelbert

1906. The history of Japan. Transl. by J. G. Scheuchzer. Pp.  
652-821. In: Voyages and Travels by John Pinkerton.  
London 1811, Vol. 7. (Fig, p. 693.) European fig tree  
brought into the country and planted by the Portuguese.  
It bears a very large fruit, bigger than ours, and I  
think better tasted, but it is very scarce. Sycomore  
fig grows there plentifully.

King, F. H.

1911. Farmers of forty centuries. 441 pp. Mrs. F. H. King,  
Madison, Wisconsin. (Fig at Shizuoka, Japan, p. 415.)  
Sampled three varieties of figs of fine flavor and  
texture.

Kusano, Keiki

1928. /Increase of demand for figs and the need of fig breed-  
ing./ (In Japanese.) Nippon Seikwa joho (Japanese Fruit  
News), pp. 16-17.

Morrow, James

1947. A scientist with Perry in Japan. 307 pp. Univ. N.  
Carolina Press, Chapel Hill. (Fig, p. 172.) "I saw  
several fine fig trees up this valley below the mills  
(Simoda). The young figs seemed to be the blue variety."

Onda, T.

1908. /Lectures on practical horticulture./ (In Japanese.) Haku-  
bun Kan, Tokyo. (2d ed.) 1912. (Fig culture, varieties, pp. 183-87.)



Ozawa, Nakazo

\_\_\_\_(?) / Culture of figs. (In Japanese.)

Rein, J. J.

1889. The industries of Japan. 570 pp. A. C. Armstrong and Son, New York. (Ficus carica, p. 90.) Japanese names, Ichijiku and To-kaki; introduced by Portuguese but cultivation limited.

Savatier, Ludwig

1875. Livres Kwa-Wi. 155 pp. Trad. du Japonais avec l'aide de M. Saba le Dr. L. Savatier. M. Savy, Paris. (Ficus carica, p. 114. Tab. 7.) In gardens of Japan.

Sawayama, Shizejiro

1930. / Fruiting of figs in Iwate-ken, the northern part of Japan. (In Japanese.) Nippon Engei zasshi (Japanese Hort. Mag.) 42(10):14-16.

Thunberg, Carl P.

1784. Flora Japonica. 418 pp. I. G. Mülleriano, Lipsiae. (Ficus carica, p. 32.) "Too kaki" grows in Nagasaki and elsewhere; brought in by Portuguese.

Yamasaki, Iwao

1936. / The packing and the marketing of fruits and vegetables in Japan. (In Japanese.) 254 pp. Nishigahara Kankokwai, Tokyo. (Fig, pp. 225-27. Pl. 94.)

## AMERICA EXCLUDING THE UNITED STATES

Acosta, Joseph

1590. The naturall and morall historie of the East and West Indies. 590 pp. Transl. by E. G. Sims for Blount and Aspley, London. (Figges, 1:266, 268.) "Higos en abundancia mayormente en el Piru."

Anonymous

1930. Pasas e higos. Frutografico 2(14):30, 31. Oct. Ia Conferencia Frutera.
1948. Higuera. Secr. de Agr. y Ganaderia Bol. de Divulg. 8 pp. (Mimeo.) San Jacinto, Mexico, D.F. General compiled account.

Eancroft, Griffing

1932. The flight of the Least Petrel. Lower California: a cruise. 403 pp. G. P. Putnam's Sons, New York. (Figs at Dolores, p. 212; at San Ignacio, pp. 301, 302, 303.)

Barham, Henry

1794. Hortus americanus, containing an account of the trees, shrubs and other vegetable productions of South America and West Indies and particularly of the Island of Jamaica. 212 pp. Alex. Aikman, Kingston. (Fig, p. 59.) Besides the delicious Spanish fig we have a sort of wild fig.

Barker, Henry D., and Wm. S. Dardeau

1930. Flore d'Haiti. 456 pp. Serv. Tech. du Dépt. Agr., Port-au-Prince. (Ficus carica, p. 90.) "Figue France", the fig of commerce, cultivated.

Barrett, O. W.

1925. The food plants of Porto Rico. Porto Rico Dept. Agr. Jour. 9:61-208. (Fig, p. 130.) Nowhere successfully cultivated as a crop; nematodes presumably weaken the root system.
1933. The origins of the food plants of Puerto Rico. Sci. Monthly 37:241-56. (Figs, p. 251.) Figs have never been able to long withstand the nematodes.

Peach, H. N.

1897. Fruit culture in foreign countries. Part 3. (Fig, pp. 729-69.) U. S. Spec. Cons. Repts. Govt. Pr. Office, Washington, D.C. (Ecuador, p. 734.) Also in: California State Bd. Hort. Rept. 1890:382. Only fig grown is the purple; none dried.

Peckwith, H. W.

1897. Fruit culture in foreign countries. Part 3. (Fig, pp. 729-69.) U. S. Spec. Cons. Repts. Govt. Pr. Office, Washington, D.C. (Bermuda, p. 735.) Also in: California State Bd. Hort. Rept. 1890:353. Figs grown but severely attacked by insects.

Belt, Thomas

1888. The naturalist in Nicaragua. (2d ed.) 403 pp. Edward Bumpus, London. (Fig, pp. 66, 69.) Fig trees grow well but attacked by longicorn beetles.

Bertoni, G. T.

1913. Fruit trees. Agronomia (Puerto Bertoni) 5:185-204. (Fig, p. 185.) Fig grown for 20 years and its culture strongly recommended.

Bird, W. S.

1897. Fruit culture in foreign countries. Part 3. (Fig, pp. 729-69.) U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Venezuela, p. 735.) Also in: California State Bd. Hort. Rept. 1890:353. Fig trees rare.

Bolding, I.

1913. Flora voor de Nederlandsch West-Indische Eilanden. 450 pp. J. H. De Bussy, Amsterdam. (Ficus carica, p. 166.)

Bolton, H. E.

1936. The rim of Christendom. 644 pp. The Macmillan Co., New York. (The fig, pp. 136, 166, 323, 539, 578.) Records of fig trees at old settlements and missions in Lower California.

Rovell, J. R.

1920. Barbados Dept. Agr. Report 1917-18:1-36. (Fig plants distributed, p. 2.) See also: Report 1918-19:2; 1916-17:2.

Britton, N. L.

1918. Flora of Bermuda. 585 pp. Charles Scribner's Sons, New York. (Ficus carica, p. 101.) Seedling figs spontaneous.

Britton, N. L., and Percy Wilson

1923. Botany of Porto Rico and the Virgin Islands. 2 parts. New York Acad. of Sciences, New York. (Ficus carica, 1:238.) Grown for its fruit in Porto Rico and the Virgin Islands.

Bukasov, S. M.

1930. The cultivated plants of Mexico, Guatemala, and Colombia. Suppl. 47, Bul. Appl. Bot., Genet., and Pl. Breeding, Leningrad. (In Russian. English summary, pp. 470-553.) (Fig, p. 83, figure 51; p. 485.) Fig leaves sold as an admixture to tobacco in Guatemala.

Calvino, M.

1912. Cultivo de la morera y la higuera. Estac. Agr. Centr. (Mexico) Bol. 73:1-33. (La higuera, pp. 15-33. 3 pls, one in color.

Canizares Zayas, Jesus

1944. Los frutales en Cuba. Rev. de Agr. [Cuba] 27:23-140. (Higuera, p. 84.) Of little importance in Cuba.

Canova, Leon J.

1910. Cuba, a pamphlet descriptive of the island of Cuba. 62 pp. Dept. Agr., Commerce and Labor, Havana. (Fig, p. 27.) Fig tree grows well; previous to Spanish retirement only one fig tree allowed per family.

Clavijero, Francisco J.

1852. Historia de la Antigua o Baja California. Obra postuma, traducida del Italiano por Nicolas Garcia de San Vicente. Juan R. Navarro, Mejico. (Fig.) Mention only.

Cobo, Bernabe (1582-1657)

- 1890-1893. Historia del Nuevo Mundo. 4 vols. In: Seville Soc. de Bibl. Andaluces Publ. Ser. 1, vol. 19. (Higos, 2:387-88.) Cobo states that the fig tree was introduced in the vicinity of Lima immediately after the conquest and he adds: "Son los higos fruta muy general en todas las Indias, asi en tierra caliente como en los valles templados de la sierra."

Cordero, Luis

1911. Enumeración botánica de las principales plantas, de la Republica del Ecuador. 304 pp. Impr. de la Universidad, Cuenca. (Higuera.) Cited by W. Popenoe 1924, p. 106. Fig tree cultivated with success.

Croce, F. M.

1931. Deseccación natural de fruta. Mendoza (Argentina) Sec. Fomento Agr. e Ind. Bol. 5:3-89. Illus. (Empaque de higos, pp. 74-76; desecación de higos, pp. 52-56.) Drying and packing of figs described.
1937. Deseccación natural y artificial de frutas y hortalizas. Sec. Fomento Agr. e Ind., Mendoza (Argentina) Bol. 24: 3-344. (Higos, pp. 103-6, 257-58, 305-7. 2 illus.) Sun drying, dehydration, packing.

Decker, Siegfried

1930. Erfolgreicher Obstbau in Brasilien. 354 pp. Edanee, Sao Paulo. (Feigenbaum, pp. 120-34.) General; soil, climate, propagation, culture, pests, varieties, drying, products.

Donde, Joaquin, and Juan Donde

1907. Apuntes sobre las plantas de Yucatan. 134 pp. Loteria del Estado, Merida. (Higuera, p. 90.) Botanical description; uses; compiled account.

Elardean, St. Felix

1897. Fruit culture in foreign countries. Part 3. (Figs, pp. 729-69.) U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Guadalupe, p. 736.) Also in: California State Bd. Hort. Rept. 1890:354. Few fig trees found are sickly and infested with insects.

Ercilla, Manuales

1942. Cultivo de frutales de gran rendimiento. (2d ed.) 131 pp. Ed. Ercilla, Santiago de Chile. (Higuera, pp. 23-34.) General; propagation, culture, pests, drying, packing.

Escobar, Romulo

- ? Enciclopedia agricola y de conocimientos afines. 3 vols. Ciudad Juarez, Chihuahua, Mexico. (Higuera, 2:318-27. Illus.) General compiled account; history, climate, sites, culture, varieties, pests.

Fernandes e Silva, R.

1938. Notas sobre a cultura da figueira. Rev. Soc. Rural Brasileira Sao Paulo 18:48-50. Notes on climate, varieties, sites and soil, propagation, planting, culture, pests, production, uses.

Fierro Blanco, Antonio de

1933. The Journey of the Flame. 295 pp. Literary Guild, New York. (Fig, p. 166.) Black figs of Comoncu; 2 tons of dried figs; brandy from dried figs.

Fina, Armando L. de, and A. J. Garbosky

1949. Cálculos, clave y notación á usar en el método de reconocimiento de la aptitud agroecologica basado en cultivos indices. Rev. de Invest. Agr. 3:277-302. Pub. 11, Minis. de Agr., Rep. Argentina. (Higuera, pp. 278, 283, 287.)

Fischer, Walter

1917. South American markets for dried fruits. U. S. Dept. Com., Bur. Foreign and Dom. Com. Spec. Agents Ser. 148: 3-35. Figures on imports of dried figs; production in Argentina and Chile.

Forbes, Alexander

1839. California: a history of Upper and Lower California. 352 pp. Smith, Elder and Co., London. (Fig, p. 51.) 1937 ed. 229 pp. J. H. Nash, San Francisco. (Fig, pp. 30, 37, 105.) Fig trees at Mission San Ignacio in 1728.



Freeman, W. G., and R. O. Williams

1927. The useful and ornamental plants of Trinidad and Tobago. Trinidad and Tobago Dept. Agr. Mem. 4. 198 pp. (Fig, p. 77.) Fig not often seen in the colony.

Gage, Thomas

1677. A new survey of the West Indies; or, the English American, his travel by sea and land. (3d ed.) 477 pp. A. Clark, London. Cited by Richardson Wright 1938. The story of gardening. A garden of 15 acres in Mexico City with figs and grapes.

Gates, Howard E.

1928. How our southern neighbors till soil in Baja California. Los Angeles Times Farm and Orchard Mag., p. 6. Illus. Nov. 4. Black figs from orchard at Mulege dried in sun.

Garcilaso de la Vega (1540-1616)

- 1869-1871. First part of the Royal commentaries of the Yncas. Transl. by Clements R. Markham. 2 vols. The Hakluyt Soc. Pub. Nos. 41, 45. London. First publ. Lisbon, 1609. Fig included with other plants.

Gay, Claudio

1849. Historia física y política de Chile. 8 vols. Casa del Autor, Paris. (Higuera, 5:373-75.) A general account; few varieties grown.

Girola, C. D.

1921. Fruticultura Argentina. Argentina Min. de Agr. Nacion, Bol. 26:29-59. (Higos, pp. 53-55.)

Gould, H. P.

1924. El cultivo y explotación de la higuera en Norte-America. Hacienda 19:274-77, 306-10.

Grabham, Michael G.

1926. The garden interests of Madeira. 100 pp. W. Clowes & Sons, London. (Fig, pp. 23, 25, 87.) Figs in great variety, May, July "when the markets are glutted with this enticing fruit", and late summer.

Gray, Ralph H.

1930. Informe del jefe de la sección de horticultura frutal. (Peru) Estac. Exp. Agr. Soc. Nac. Agrar. Mem. 2:41-61. 6 plates. (Higueras, p. 48.) Fig trees seriously injured by borers.

Guenther, K.

1931. Naturalist in Brazil; the flora and fauna and the people of Brazil. Transl. by B. Miall. 399 pp. G. Allen & Unwin, London. (Fig, pp. 243-44.)

Hart, J. H.

1897. Fruit culture in foreign countries. Part 3. (Figs, pp. 729-69.) U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Trinidad, p. 736.) Also in: California State Bd. Hort. Rept. 1890:354. Fig trees limited to private gardens.

Hodge, W. H.

1945. The plant resources of Peru. Pp. 119-21. In: Plants and plant science in Latin America. 381 pp. Ed. by Frans Verdoorn. Chronica Botanica Co., Waltham. (Fig, p. 119.) Sizeable plantings found along the coast.

Horn, Claud L.

1929. Report of the horticulturist. Virgin Isl. Agr. Exp. Sta. Rept. 1928:6-10. (Figs, pp. 9-10. Figure 3.) The 3-year-old fig planting contains 40 trees; varieties listed; pustule scale a pest.

Howard, Paul M.

1929. Lower California, from a plant quarantine viewpoint. California Dept. Agr. Mo. Bul. 18:615-21. Figures 88-93. (Fig, p. 617.) Large plantings at San Ignacio.

Kino

1919. Kino's historical memoir of Pimeria Alta; a contemporary account of the beginnings of California, Sonora, and Arizona--1683-1711; publ. for the first time from the original ms. in the archives of Mexico. Transl. into English, edited and annotated by Herbert E. Bolton. 2 vols. Arthur E. Clark Co., Cleveland. (Fig, 2:265.) Many Castilian fruit trees such as the fig.

Krug, C. A.

1944. Observações e investigações feitas numa viagem de estudo aos Estados Unidos da America do norte 1940-1941. 289 pp. Estado de São Paulo, Brasil. (Figs, pp. 88-94.) General observations.

Lefroy, John H.

1884. Contribution to the natural history of the Bermudas. Ed. by J. M. Jones and G. B. Goode. Govt. Pr. Office, Washington, D.C. Botany, pp. 35-141. (Ficus carica, pp. 102-3.) In 1623 figs abundant enough to be dried; several varieties at St. George.

Lloyd, John W.

1942. Pan American trade with special reference to fruits and vegetables. 345 pp. The Interstate, Danville, Illinois. (Dried figs, pp. 75, 123.) Exports from Chile.

Lounsbury, C. P.

1905. Fruit culture in Argentina. Agr. Jour. Cape of Good Hope 27:192-210. (Fig, pp. 196, 198, 209.) Figs, 10 per cent of total acreage. Abstracted in: Exp. Sta. Rec. 17:662.

McBride, G. M.

1936. Chile: land and society. 408 pp. American Geogr. Soc., New York. (Fig, p. 365.) Excellent figs grown on small holdings in valleys of northern deserts.

McGaffey, J. W.

1929. In the days of '49. Touring topics 21:38. June. Fig in Mexico mentioned.

Martínez, Maximino

1937. Catálogo de nombres vulgares y científicos de plantas Mexicanas. 551 pp. Mexico, D.F. (Ficus carica, pp. 234, 235.) Listed only.
1944. Las plantas medicinales de Mexico. (3d ed.) 630 pp. Mexico, D.F. (Higuera, p. 537.) Short.
1946. Botánica. (4th ed.) 231 pp. Edic. Botas, Mexico. (Higo, pp. 110, 117. Figures 189, 208.) Brief.

Martius, Karl F. P. von

- 1840-1906. Flora brasiliensis. 15 vols. in 40. P. Oldenbourg, Lipsiae. (Ficus carica, 4:106.)

Minneman, P. G.

1942. The agriculture of Cuba. 144 pp. U. S. Dept. Agr. For. Agr. Bul. 2. (Imports of dried figs, p. 76.)

Miranda, F.

1953. La végétation de Chiapas. 2 vols. Tuxtla Gutierrez, Chiapas. (Ficus, 2:54.) F. carica, brief account.

Moraes Vasconcellos, Octavio G.

1921. Fructos semi-tropicales. Brazil Min. da Agr. Indus. e Com. Bol. 9:77-95. (Figueira, pp. 78-82.)

Morton, J. F., and R. B. Ledin

1952. 400 plants of South Florida. 134 pp. Text House, Coral Gables, Florida. (Ficus carica, p. 61.) Brief.

Morton, Kendal, and Julia Morton

1946. Fifty tropical fruits of Nassau. 118 pp. Text House, Coral Gables, Florida. (The fig, pp. 39, 40. 1 figure.) Brief; so-called "black" and "white" types found in gardens; fruits most common from June to November.

Moscoso, R. M.

1943. *Catalogus florae Domingensis*. 732 pp. L. & S. Pr. Co., New York. Bibl. de la Univ. de Santo Domingo, Ciudad Trujillo. (*Ficus carica*, p. 138.) Cultivated in Santo Domingo and Haiti; listed only.

Motz, Fred A.

- 1942a. The fruit industry of Argentina. U. S. Dept. Agr. For. Agr. Rept. 1:1-102. (Fig, p. 3.) Total fig trees 12,645, producing 452 tons in 1936.

- 1942b. The fruit industry of Chile. U. S. Dept. Agr. For. Agr. Rept. 3:1-46. (Fig, p. 19.) Total fig trees 292,000, producing 2100 tons in 1937.

Motz, Fred A., and L. D. Mallory

1944. The fruit industry of Mexico. U. S. Dept. Agr. For. Agr. Rept. 9:1-184. (Fig, p. 14.) Fig trees brought to Mexico about 1535; refers to Standley 1920 to 1926.

Mullen, Alice J.

1943. Dried fruit industry in Argentina and Chile. Foreign Commerce Weekly. Figs of some value; in Central Chile almost every house has its vine and fig tree. Also in: California Fruit News 108(2875):3-5.

Needham, G. F.

1882. Fig culture at the north (Ontario, Canada). Gard. Monthly and Hort. 24:79, 144. Figs successfully produced in open at Barrie.

Nelson, Edward W.

1921. Lower California and its natural resources. 194 pp. Natl. Acad. Sci. Vol. 16. First Memoir. Govt. Pr. Office, Washington, D.C. (Figs, pp. 21, 36, 109.) Several acres of large black figs.

Nicholls, H. A. A.

1888. Colonial fruit. Dominica. Kew Roy. Bot. Gard. Bul. Misc. Inform. 1888:197-213. (Fig, p. 210.) This delicious fruit always in season; less plentiful in April, May, June.

North, Arthur W.

1910. Camp and camino in Lower California. Baker and Taylor Co., New York. (Figs, pp. 193, 194, 201, 204, 222.) Enormous fig trees at Mulege; figs grown extensively along Purisima Rio; "white limbs of mammoth fig trees" at San Xavier.

Oviedo y Valdas, Gonzalo F.

- 1851-1855. Historia general y natural de las Indias, islas y tierra firme del mar oceano. 3 parts in 4 vols. Impr. de la Real Academia de la Historia, Madrid. First publ. at Madrid, 1526. (Fig, 1:288.) Variety called Godens in Aragon and Burjassotte in Catalonia; a fig with seeds colored or rosy.

Padilla, Alberto

- 1917-1925. Diccionario botánico y portátil. 6 vols. in 2. El Salvador, Ahuachapan. (Higo, 2:856.) Short, general.

"Paracelso"

- (?) Las plantas magicas; botánica oculta. 221 pp. Edit. Kier, Buenos Aires. (Higuera, p. 185.) Brief.

Parades, Antonio G.

1941. La higuera comun. Rev. Fac. Nac. de Agron. (Columbia) 4:1639-44. General; caprification, properties, uses.

Peckolt, Theodore

1899. Volksbenennungen der brasilianischen Pflanzen und Produkte derselben in brasilianischer (portugiesischer) und der von der Tupisprache adoptierten Namen. Pharm. Archives 2:301-12. (Ficus carica, p. 307.)

Peña, Rafael

1944. Flora Crucena. 475 pp. Minist. de Educación, La Paz. (Higuera comun, p. 265.) Botany, uses.

Peña, Rogelio

1943. Horticultura y fruticultura. (2d ed.) 387 pp. Jose Monteso, Buenos Aires. (Higuera, pp. 259-61. Figure 148.) Short, general.

Perez Arbelaez, Enrique

1947. Plantas utiles de Colombia. 537 pp. Impr. Nacional, Bogota. (Ficus carica, p. 219.) General.

Philippi, R. A.

1869. Elementos de botánica para el uso de los estudiantes de medicina i farmacia en Chile. 571 pp. Impr. Nacional, Santiago de Chile. (Higuera, p. 368.) Brief.

Pittier de Fabrega, H.

1908. Ensayo sobre las plantas usuales de Costa Rica. 176 pp. H. L. & J. B. McQueen, Washington, D.C. (Higuera, p. 102.) Brief; fruit generally inferior.
1926. Manual de las plantas usuales de Venezuela. 458 pp. Litogr. del Comercio, Caracas. (Higuera, p. 257.) Brief.
1932. Clasificación natural de las plantas Venezuela. 140 pp. Tip. Americana, Caracas. (Higuera, p. 39.) Brief.



Pittier de Fabrega, H., et al.

1945. Catálogo de la Flora Venezolana. 2 vols. Lit. y Tip., Vargas, Caracas. (Ficus carica, 1:252.) Brief; cultivated.

Popenoe, Wilson

1924. Economic fruit-bearing plants of Ecuador. U. S. Natl. Herb. Contrib. 24 (part 5):101-34. Illus. (Ficus carica, p. 106.) Cultivated throughout the highlands; two sorts, black and green fruited.

Ramirez Goyena, Miguel

1909. Flora Nicaraguense. 1064 pp. Tip. Internacional, Managua. (Ficus carica, p. 700.) Short; cultivated.

Ramusio, Giovanni B.

- 1550-1574. Delle navigationi et viaggi. 3 vols. Stamperia de Giunti, Venetia. Vol. 3, pp. 44-224, a condensation and translation into Italian of material taken from Oviedo y Valdes, "Delle generale et naturale historia delle Indie." Fig trees brought from Spain were already bearing excellent fruit on the island of Espanola in 1526.

Regitano, Orlando

1952. Cultura da figueira. 18 pp. Serviço de Divulg. Agrícola, São Paulo, Brazil. (Mimeo.) Climate, soil, culture, fruiting, pests, packing.

Reiche, Karl

1907. Grundzüge der Pflanzenverbreitung in Chile. 374 pp. W. Engelmann, Leipzig. Vol. 8 of: Vegetation der Erde, by A. Engler and O. Drude. (Ficus carica.)

Reiche, Phil. Carlos

1926. Flora excursoria en el Valle Central de Mexico. 303 pp. Talleres Graf. de la Nación, Mexico. (Ficus carica, p. 30.) Brief.

Reid, John

1855. Some account of the horticulture of Tacna in Peru. London Hort. Soc. Jour. 9:99-109. (Figs, p. 106.) Figs of excellent quality and in great abundance.

Reko, Blas P.

1945. Mitobotánica Zapoteca. 154 pp. Tacubaya, Mexico. (Ficus carica, p. 123.) "Yaxo castilla", Zapotec name.

Reynosr Alvaro

1867. Apuntes acerca de varios cultivos Cubanos. 382 pp. M. Rivadeneyra, Madrid. (Higuera, pp. 57-64.)

Robertson, James A.

1927. Some notes on the transfer by Spain of plants and animals to its colonies overseas. *James Sprunt Hist. Studies* 19:7-21. (Figs, p. 18.) First planted half a league outside of Lima and soon became plentiful.

Roig y Mesa, Juan T.

1928. *Diccionario botánico de nombres vulgares Cubanos*. 897 pp. Cuba Estac. Exp. Agron. Bol. 54. (Higuera, p. 357.)

Rojas, Ulises

- 1925-1936. *Elementos de botánica general*. 3 vols. Tipogr. Nacional, Guatemala. (Higo, p. 1034.)

Ruiz, L. B.

1939. *Especies e variedades frutales que conviene cultivar en las diversas regiones del país*. /Chile/ Min. de Agr. Dept. Arbor. Bol. 19:17-31. (Higuera, p. 30.)

Sesse, Martino, and Josepho M. Mocino

1893. *Plantae novae Hispaniae*. (2d ed.) 176 pp. Ofic. Tipogr. Secr. Fomento, Mexico. (*Ficus carica*, p. 167.) Properties of the fruit.

Sharpe, T. A.

1894. *Experimental Farm for British Columbia Report*. Canada Exp. Farms Rept. 1893:314-48. (Fig, pp. 343-44.) Variety behavior; ten kinds looking well. See also: Reports for 1891:336; 1890:294.

1896. *Experimental Farm for British Columbia Report*. Canada Exp. Farms Rept. 1895:371-412. (Fig, p. 397.) Figs made a strong growth but only Early Violet bore fruit.

Shattuck, George B.

1905. *The Bahama Islands*. 630 pp. The Macmillan Co., New York. (*Ficus carica* rare in the Bahamas, p. 210.)

Skottsberg, Carl

1945. *The Juan Fernandez and Desventuradas Islands*. Pp. 150-53. In: *Plants and plant science in Latin America*. 381 pp. Ed. by Frans Verdoorn. Chronica Botanica Co., Waltham. (Fig, p. 153.) Fig and quince have become naturalized and give excellent fruit.

Standley, Paul C.

1917. *The Mexican and Central American species of Ficus*. U. S. Natl. Herbarium Contrib. 20, part 1:1-35. (*Ficus carica*, p. 34.) Widely cultivated; probably escaped from cultivation.

- 1920-1926. Trees and shrubs of Mexico. U. S. Natl. Herbarium Contrib. 23:1-1681. (Fig, p. 206.) Under favorable conditions figs produced at all times of the year.
- 1937a. Flora of Costa Rica. Field Mus. Nat. Hist. Chicago Pub. 391, Bot. Ser. 18. (Ficus carica, p. 385.) Seldom seen in Central America.
- 1937b. In: Flora of Peru, by J. F. Macbride. Field Mus. Nat. Hist. Chicago. Pub. 379, Bot. Ser. 13. (Ficus carica, p. 302.) Cultivated in various parts of Peru.
- Standley, Paul C., and Julian A. Steyermark  
1946. Flora of Guatemala. Fieldiana. Botany. Vol. 24, Part 4. Nat. Hist. Museum, Chicago. (Ficus carica, p. 35.) Planted sporadically in the mountains and sometimes at low elevations, usually of a few trees about a dwelling.
- Stearns, Elmer  
1907. El cultivo de la higuera. Ciudad Juarez, Chihuahua Estac. Agr. Exp. Sta. Bol. 8:1-33. 8 pls. Subject matter largely compiled from California sources according to Exp. Sta. Record 19:339.
- Sturdy, D.  
1950. Jamaica Dept. Agr. Ann. Rept. for year ended 31st March 1948:1-20. (Figs, p. 11.) Kadota, Mission and Brown Turkey introduced from California.
- Titford, W. J.  
1811. Sketches towards a Hortus Botanicus Americanus. 131 pp. Publ. by the author, London. (Fig, p. 108.) Tree common in Jamaica; uses, medicinal properties; other species.
- Turbiano, J. F.  
1894. Arboricultura y floricultura. 2 parts. Arboricultura. 137 pp. Impr. Papeleria "La Universal" de Ruiz y Hermano, Habana. (Higo de Europa, p. 66.) An exotic fruit.
- Urbina, M.  
1912. Los amates de Hernandez, ó higueras Mexicanas. La Naturaleza III (Revista Cien.) I:32-53. Ficus species. Cited by Paul Standley 1920-1926, p. 205.
- Valdez, D. Manuel A.  
1784-1821. Compendio de noticias de Nueva España desde principios del año de 1784. 44 vols. Zuniga y Ontiveros, Mexico. (Fig.)
- Van Hermann, H. A.  
1910. Native and tropical fruits. Cuban Natl. Hort. Soc. Ann. Rept. 4:128-48. (Fig, p. 142.) Fig trees of several varieties; affected by rust.

1915. Frutas tropicales. Cuba Estac. Exp. Agron. Tercer Inf. Anual 1909-1914:38-44. (Fig included.)

Venegas, Miguel

1759. A natural and civil history of California. Transl. from the original Spanish. 2 vols. J. Rivington and J. Fletcher London. (Fig, 1:43.) San Barnabe abounds with various fruit trees such as the fig.

Vidal, Jose J.

1938. Manual del fruticultor. 163 pp. Impres. Oficiales, Direc. de Agr., Ganad. e Industrias, La Plata. (Higos, p. 138.) Composition, value.

Viosca, James

1897. Fruit culture in foreign countries. Part 3. Figs, pp. 729-69. U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Mexico, p. 734.) Also in: California State Bd. Hort. Rept. 1890:381. Brief account of fig culture at La Paz, Lower California.

Waterston, J. M.

1944. Fruit culture in Bermuda. 119 pp. Govt. Printer, Hamilton, Bermuda. (Fig, p. 95.) Several varieties grow well; rust the chief disease.

Weberbauer, A.

1945. El mundo vegetal de los Andes Peruanos. 776 pp. Minist. de Agricultura, Lima. (Ficus carica, pp. 126, 622, 626.) Listed only with other fruits.

[Wheat, Marvin]

1857. Travels on the western slope of the Mexican Cordillera. By Cincinnatus. 438 pp. Whitten, Towne, & Co., San Francisco. (Fig, pp. 310-11.) Tree flourishes; short account including caprification but does not actually say that caprification was done at Colima.

Williams, R. O.

1897. Fruit culture in foreign countries. Part 3. Figs, pp. 729-69. U. S. Spec. Cons. Rept. Govt. Pr. Office, Washington, D.C. (Cuba, p. 736.) Also in: California State Bd. Hort. Rept. 1890:354. Fig trees limited to private gardens.

## UNITED STATES GENERAL

## Anderson, Edgar

1952. Plants, man and life. 245 pp. Little, Brown and Co., Boston. (Fig, p. 179.) Brief. Quotes from I. J. Condit 1947, The fig. See also, p. 138 for fig in Mexican garden.

## Anonymous

- 1866a. The cultivation of the fig. Amer. Agr. 25:141. Growing of cuttings, pruning, winter protection.
- 1866b. Profit of figs. Gard. Monthly 8:84.
1878. Cultivation of the fig and the method of preparing the fruit for commerce. U. S. Dept. Agr. Spec. Rept. 4:3-12. Historical account, description of tree and fruit, reports from correspondents.
1887. About figs. Amer. Liberty (Hampton, Va.) Also in: The Semi-Trop. Planter 1(4):57. Aug. Short general account.
- 1916-1917. Farmers' cyclopedia - abridged from publications of the U. S. Dept. Agr. and the experiment stations. 7 vols. Doubleday, Page and Co., Garden City, New York. (The Smyrna fig, 5:300; fig scale, 6:259; fig diseases 6:507-10.)
1927. New international encyclopedia. 25 vols. (2d ed.) Dodd, Mead & Co., New York. (Fig, 7:536, 537. 1 figure.)
1931. Origins of the vine and the fig tree. Sci. News Letter, April 18.
1937. Encyclopedia Americana. Americana Corp., New York. (Fig, 11:201-2.)
1939. Regional research laboratories Department of Agriculture. 429 pp. U. S. Senate Doc. 65, 76th Congress. Govt. Pr. Office, Washington, D.C. (Figs, pp. 165-66.) Production data; twelve research projects suggested.
1944. Fresh fruits and vegetables. Better buymanship, use and care series. Bul. 3. 42 pp. June. Dept. of Research, Household Finance Corp., Chicago, Ill. (Figs, p. 13.) Characteristics fresh.



Armstrong, John

1864. The fruit garden. In: A treatise on agriculture. 282 pp. Harper and Bros., New York. (The fig tree, pp. 269-73.)

Asch, John

1948. The story of plants. 407 pp. G. P. Putnam's Sons, New York. (Fig, see index.) Mention in various connections; pollination by fig wasp briefly described.

Bailey, L. H.

1925. The gardener. 260 pp. The Macmillan Co., New York. (Fig, p. 128.) Short, general. 1934 ed. The gardener's handbook. (Fig, p. 106.)

1949. Manual of cultivated plants. (Revised ed., completely restudied.) 1116 pp. The Macmillan Co., New York. (Ficus carica, p. 339.)

Bailey, L. H., and Ethel Z. Bailey

1930. Hortus. 652 pp. The Macmillan Co., New York. (Fig, p. 258.) Very short description.

1941. Hortus second. 778 pp. The Macmillan Co., New York. (Fig, p. 309.) Brief description.

Barry, P.

1860. The fruit garden. 398 pp. C. M. Saxton, Barker & Co., New York. (Fig, pp. 260-62, 350-51.) Propagation, soils, culture, winter protection, varieties.

Bengtson, Nels A., and W. van Royen

1942. Fundamentals of economic geography. 802 pp. Prentice-Hall, New York. (Figs, pp. 486-87.) General, popular account.

Bennett, Mark

1918. The Smyrna fig in America. Amer. Bot. 24:92-95. A popular account of Smyrna fig and the blastophaga.

Boyd, F. M.

1925. The budding fig tree. 124 pp. Gospel Publ. House, Springfield, Missouri. Prophecy from Biblical references.

Brett, Walter (Editor)

1940. The home gardening encyclopedia. 448 pp. Chemical Publ. Co., New York. (Figs, p. 140.) Short; culture outdoors and in greenhouse.

Bridgeman, Thomas

1847. The fruit cultivator's manual. 189 pp. Publ. by the author, New York. (Fig, pp. 61-64.) Compiled account; varieties described.

1865. The young gardener's assistant. Wm. Wood and Co., New York. (Fig, pp. 61-64.) Popular account from various sources.
- Bridgewater, Wm., and Elizabeth J. Sherwood  
1950. The Columbia encyclopedia. 2203 pp. Columbia Univ. Press, New York. (Fig, p. 674.) Brief.
- Brown, Roland W.  
1954. Composition of scientific words. 882 pp. Publ. by the author. Pr. by King, Baltimore. (Ficus, p. 325; fig, pp. 326-27.)
- Brown, Wm. H.  
1935. The plant kingdom. 869 pp. Ginn and Co., New York. (Fig, pp. 299, 303. Figure 345.) Short description and illustration of the collective fruit of the fig.
- Browne, D. J.  
1846. The trees of America. 520 pp. Harper and Bros., New York. (Fig, pp. 470-76.) Varieties listed and described with Latin terminations, as Ficus carica candida.  
  
1854. Preliminary remarks. U. S. Com. Agr. Rept. for 1854: I-XXXV. (Fig, p. XXIX.) Large white fig, Figuier blanc, lately imported.
- Budd, J. L., and N. E. Hansen  
1903. American horticulture manual. 2 parts. John Wiley and Sons, New York. (The fig, part 1:207-10.) General account; possible fig improvement; fig growing in the north; in Turkestan.
- Buechel, F. A.  
1926. The commerce of agriculture. 439 pp. John Wiley & Sons, New York. (Figs, p. 312.) Short account.
- Burr, Aaron  
1838. The private journal of Aaron Burr. 2 vols. Ed. by Matthew L. Davis, Harper & Bros., New York. (Fig poultice for swollen jaw, 2:305.)
- Cater, Ruth C.  
1950. Tree trials and hobbies. 324 pp. Doubleday and Co., Garden City. (Fig, pp. 234-36.) General; caprification.
- Caviston, R. V.  
1952. Oldest fruit industry. New York Bot. Gard. Jour. 2:144-45.

Chandler, W. H.

1925. Fruit growing. 714 pp. Houghton Mifflin Co., Boston. (Fig, pp. 216-18, 628, 460.) Caprification, climatic responses.
1928. North American orchards. Lea & Febiger, Philadelphia. 506 pp. (Fig, pp. 147-49.) Short account.
1942. Deciduous orchards. 438 pp. Lea & Febiger, Philadelphia. (Fig, pp. 368-75. Figures 93-95.) Climate, fruit buds and parthenocarpic fruits, pollination, development and maturing of fruit, propagation, pruning.

Childers, N. F.

1949. Fruit science. 630 pp. J. B. Lippincott Co., Philadelphia. (Figs, pp. 8, 9.) Twelfth place in production of U. S. fruits; eleventh in percent of total value, or 1.1 percent.

Clepper, H. E.

1937. These ten trees are the most important in all the world. Nature Mag. 30:144-47. (Fig, p. 146. One illus.) Fig tree given fifth place on list.

Clute, Willard N.

1928. The useful plants of the world. 86 pp. W. N. Clute and Co., Joliet, Illinois. (Fig, pp. 4-5, 24, 76.) 2d ed. 220 pp. 1932. (Fig, pp. 10, 37, 38, 55, 182.) Brief references to economic importance, nature of fruit, uses.

Coffman, Ramon

1943. Fig family. Evening Star, Washington, D.C. Jan. 22. Brief popular account.

Cole, S. W.

1849. The American fruit book. 288 pp. J. P. Jewett, New York. Brief account of fig.

Collins, J. H.

1916. Figs, a market mystery. Country Gentleman 81:1899. Popular article including caprification.

Comstock, John L.

1845. An introduction to the study of botany. (11th ed.) 485 pp. Pratt, Woodford and Co., New York. (Ficus, pp. 212-13.)
1851. The young botanist. (4th ed.) 234 pp. Pratt, Woodford and Co., New York. (Figs, p. 179.)

Condit, Ira J.

1947. The fig. 222 pp. 27 text illus. 12 tables. Chronica Botanica Co., Waltham, Massachusetts. A complete reference book on the fig and its culture.

1952. Figs. In: Encyclopedia Britannica, Chicago. Vol. 9:227-29. Figures A-E. General account of Ficus carica and several other species.
- Corbett, L. C., et al.  
1926. Fruit and vegetable production. U. S. Dept. Agr. Yearbook 1925:151-452. (Fig, pp. 234-37. Figures 51-53.) Short account of fig production in the southern states and in California. See also: pp. 112, 113, for brief mention.
- Cross, P. G.  
1936. Our friends the trees. 325 pp. E. P. Dutton & Co., New York. (Fig, p. 114; sycamore, p. 185.)
- Dahlgren, B. E.  
1922. Figs. Field Mus. Nat. Hist., Chicago, Dept. Bot. Leaflet 1:1-7. 1 plate. A popular account of the fig fruit and of caprification.  
  
1947. Tropical and subtropical fruits. 72 pp. Illus. Field Mus. Nat. Hist. Chicago, Pop. Ser. Botany No. 26. (Figs, p. 5. 1 figure.) Brief account.
- Darby, John  
1870. Facts about figs. Amer. Grocer. Summary in: Rural Carolinian 1(11):682.
- Darlington, William  
1847. Agricultural botany. 270 pp. J. W. Moore, Philadelphia. (Ficus carica, pp. 178-79.)
- Downing, A. J.  
1852. The fruits and fruit trees of America. 563 pp. John Wiley & Son, New York. (14th ed.) (Fig, pp. 207-12.) History, culture, propagation, varieties. 1869 ed. Rev. and corrected by Charles Downing. 1098 pp. (Fig, pp. 494-99.) History, culture, oleification, variety descriptions after British authors.
- Drain, B. D.  
1925. Essentials of systematic pomology. 284 pp. John Wiley & Sons, New York. (Fig, pp. 3, 246, 247.) Short account and classification of varieties.
- Edmond, J. B., A. M. Musser, and F. S. Andrews  
1952. Fundamentals of horticulture. 502 pp. P. Blakiston Son & Co., New York. (Fig, pp. 359-60.) Brief.

Edwards, Everett E.

1943. Jefferson and agriculture. 92 pp. U. S. Dept. Agr. Agr. Hist. Ser. No. 7. (Figs, pp. 33, 69.) Account of Jefferson's experiences with fig trees. "The fig and mulberry are so well known in America that nothing need be said of them. Their culture, too, is by women and children and, therefore, earnestly to be desired in countries where there are slaves."

Eisen, Gustav

1897. Edible figs: their culture and curing. U. S. Dept. Agr. Div. Pomology Bul. 5:5-22. A good account of the fig, its culture, varieties, and handling of crop.
1901. The fig: its history, curing, and culture, with a descriptive catalogue of the known varieties of figs. 317 pp. 93 figures. U. S. Dept. Agr. Div. Pom. Bul. 9. Govt. Pr. Office, Washington, D.C. An excellent treatise on the fig; a fig classic.

Fairchild, David

1938. The world was my garden. Travels of a plant explorer. Assisted by Elizabeth and Alfred Kay. 481 pp. Chas. Scribner's Sons, New York. (Fig, p. 210.) Gives opinion of Calimyrna fig as seen at Fresno in 1901.

Fernald, Merritt L.

1950. Gray's manual of botany. 1632 pp. American Book Co., New York. (*Ficus carica*, p. 555.) Spread from cultivation to clearings and waste places southward.

Fletcher, S. W.

1910. How to make a fruit garden. 283 pp. Doubleday, Page & Co., New York. (Fig, pp. 198-200.)

Fox, Helen M.

1929. Patio gardens. 228 pp. The Macmillan Co., New York. (Fig trees, pp. 24, 50, 135, 190.)

Fraser, Samuel

1924. American fruits. 888 pp. Orange Judd Publ. Co., New York. (Fig, pp. 713-27. Figures 156-59.) General account of fig culture and varieties.

Freeman, W. G., and S. E. Chandler

1911. The world's commercial products. 391 pp. Ginn and Co., Boston. (Fig, p. 275.) Short, general.

Gardner, V. R., F. C. Bradford, and H. D. Hooker

1922. The fundamentals of fruit production. 677 pp. McGraw-Hill Book Co., New York. (2d ed.) 1939. (Fig, see index.) Chemical composition, parthenocarp, fruit development.



## Gaye, Selina

1905. The great world's farm. 365 pp. The Macmillan Co., New York. (Fig, pp. 247-49.) Short popular account.

## Gibbs, R. Darnley

1950. Botany, an evolutionary approach. 554 pp. The Blakiston Co., Philadelphia. (Fig, p. 350. Figures 203, a, b.) Has been known to man for at least 6000 years; fruits pollinated by gall wasps.

## Harshberger, John W.

1920. Text-book of pastoral and agricultural botany. 294 pp. P. Blakiston's Son and Co., Philadelphia. (Fig, p. 233.) Brief.

## Hedrick, U. P.

1950. A history of horticulture in America to 1860. 551 pp. Oxford Univ. Press, New York. (Fig, pp. 119, 299, 340, 382-83.) Historical notes.

## Henderson, Peter

1890. Henderson's handbook of plants and general horticulture. 526 pp. (2d ed.) Peter Henderson & Co., New York. (Ficus, p. 154.)

1891. Gardening for pleasure. 398 pp. Orange Judd Co., New York. (Figs, pp. 284-85.) Short account; four varieties described.

## Hill, Albert F.

1937. Economic botany. 592 pp. McGraw-Hill Book Co., New York. (Fig, pp. 444-45, 535.) (2d ed.) 1954. History, classes of figs, caprification, uses.

## Hylander, C. J.

1939. The world of plant life. 722 pp. The Macmillan Co., New York. (Fig, pp. 196-97.) Brief history of fig culture in California.

1947. Plants and man. 516 pp. The Blakiston Co., Philadelphia. (Fig, p. 213. Figure 152.) A peculiar accessory fruit with numerous small achenes.

## Kains, M. G.

1918. Home fruit grower. 213 pp. A. T. De La Mare, New York. (Figs, pp. 128, 129. Figure 89.) General, short; variety descriptions compiled.

1940. Grow your own fruit. 434 pp. Charles Scribner's Sons, New York. (Figs, pp. 164, 326-29. Figure 129.) Even as far north as Long Island fig tree found in private gardens; culture, uses.

- Kelsey, H. P., and W. A. Dayton  
1942. Standardized plant names. 675 pp. F. H. MacFarland Co., Harrisburg, Pennsylvania. (Fig, p. 248.) Recognized variety names listed.
- Kenrick, William  
1844. The new American orchardist. 450 pp. Otis, Broaders and Co., Boston. (Fig, pp. 323-28.) General, uses.
- Knapp, H. B., and E. C. Auchter  
1941. Growing tree and small fruits. 615 pp. John Wiley and Sons, New York. (Fig, pp. 105, 107.) Statistics.
- Kuck, Loraine E., and R. C. Tongg  
1936. The tropical garden. 373 pp. The Macmillan Co., New York. (Fig, p. 154.)
- Lamb, F. H.  
1939. Book of the broadleaf trees. 367 pp. W. W. Norton and Co., New York. (Fig, p. 24.)
- Little, Elbert L.  
1953. Check list of native and naturalized trees of the United States. 472 pp. Agr. Handbook 41. United States Forest Service, Washington, D.C. (Ficus, p. 184.) F. carica escaped from cultivation; a shrub or small tree to 15 feet tall.
- Lochman, Charles L.  
1898. Photographs of medicinal and economic plants, from natural living specimens. 234 pls. Bethlehem, Pennsylvania. (Ficus carica, pl. 42.) Cited by O. Stapf, 1931, Index Londinensis.
- Lowther, G., F. C. Reimer, and R. H. Bushway  
1914. Encyclopedia of practical horticulture. 4 vols. Encyclopedia of Hort. Corp., N. Yakima, Washington. (Figs, 2: 955-58.) Short account of culture.
- Lyons, A. B.  
1907. Plant names scientific and popular. 630 pp. (2d ed.) Nelson, Baker and Co., Detroit. (Ficus carica, p. 196.) Brief; common names, uses.
- MacKeever, F. C.  
1951. Plantics. New York Bot. Gard. Jour. 1:88. Plant antics. Fig not unlike a boy who readying for a swim, peels off his shirt "inside-out"; the fig has turned its flowers completely "inside-in".

M'Mahon, Bernard

1857. The American gardener's calendar. 637 pp. J. B. Lippincott & Co., Philadelphia. (Fig, pp. 225-28.) Edition of 1806, pp. 209-10. Short account of fig culture; fourteen varieties described.

Magness, J. R.

1951. How fruit came to America. Natl. Geog. Mag. 100:325-77. (Fig, p. 347. Color pl.) Short history, caprification, importance.

Maynard, Samuel T.

1916. Successful fruit culture. 274 pp. Orange Judd Co., New York. (Fig, pp. 180-81. Figure 92.) Short, general.

Molon, Girolamo

1918. L'orticoltura Americana. 287 pp. Milano. (Fig, pp. 64, 90, 196-99.) Imports into Canada, varieties and drying; references.

Newbiggin, Marion I.

1910. Tillers of the ground. 224 pp. The Macmillan Co., New York. (Fig, pp. 84-89, 102-15.) Popular account of history and introduction into the United States.

Pool, R. J.

1929. Flowers and flowering plants. 348 pp. McGraw-Hill Book Co., New York. (Fig, pp. 53, 189.)

Popenoe, Wilson

1951. Fig. In: The world book encyclopedia. Vol. 6:2532-33. 4 figures. Field Enterprises, Chicago. Short, general account.

Powell, E. P.

1905. The orchard and fruit garden. 322 pp. McLure, Phillips and Co., New York. (Fig, pp. 138-40.) General; several varieties briefly described.

Prescott, Samuel C., and Bernard E. Proctor

1937. Food technology. 630 pp. McGraw-Hill Book Co., New York. (Figs, pp. 449, 498, 503.) A compiled account; storage practice of dried figs, dehydration, statistics in California.

Prince, William R.

1828. A short treatise on horticulture. 196 pp. T. and J. Swords, New York. (Fig, p. 38.)

Ragan, W. H.

1889. Our cultivated fruits--native and introduced. In: U. S. Comm. Agr. Rept. 1888:577-95. (The fig, p. 581.) Except in California, fig culture not successful without winter protection.

Robbins, W. W.

1931. The botany of crop plants. (3d ed.) 639 pp. P. Blakiston's Son & Co., Philadelphia. (Fig, pp. 263-70.) Botany, habit of growth, caprification, types, uses.

Robbins, W. W., and F. Ramaley

1933. Plants useful to man. 428 pp. P. Blakiston's Son & Co., Philadelphia. (Figs, pp. 172-78. Figures 107-10.)

Rockwell, F. F.

1944. 10,000 garden questions answered by 15 experts. 1467 pp. Doubleday, Doran and Co., Garden City, New York. (Figs, p. 858.) Answers regarding culture, winter protection, propagation, trees under glass.

Rogers, Julia E.

1913. The book of useful plants. 374 pp. Doubleday, Page and Co., Garden City, New York. (Fig, pp. 230-37.) General; flowers and caprification.

1923. Trees worth knowing. 281 pp. Doubleday, Page and Co., New York. (The figs, pp. 165-67.) Brief, popular.

Santa Fe Railway

1939. Dried fruits. 35 pp. Illus. Atchison, Topeka and Santa Fe Railway Co. (Figs, p. 25.) Short, popular.

Sargent, Charles S.

- 1891-1902. The silva of North America. 11 vols. Houghton Mifflin and Co., Boston. (Ficus carica, 7:93.) Short, general account.

Sargent, F. L.

1913. Plants and their uses, an introduction to botany. 610 pp. Henry Holt & Co., New York. (Fig, pp. 82, 102, 121, 124. Figure 110.) Brief references to fruit.

Saunders, William

1880. Report of the Superintendent of Gardens and Grounds. In: U. S. Comm. Agr. Rept. 1879:359-64. (Figs, p. 360.) Winter injury and protection.

1889. Division of Gardens and Grounds. In: U. S. Sec. Agr. First Rept., pp 111-34. (Figs, pp. 127-28.) Winter protection; list of 19 varieties with synonyms.

1891. Papers on horticultural and kindred subjects. U. S. Dept. Agr. Dept. Repts. 48:1-124. (Fig.)
1892. Report of Superintendent of Gardens and Grounds. In: U. S. Sec. Agr. Rept. 1891:463-84. (Figs, pp. 463, 470.) Distribution of fig cuttings. See also: Rept. 1892:377-402. (Figs, pp. 381, 383-85, 392.) Refers to investigations of N. B. Pierce in California on fermentation of figs; probably caused by yeasts carried by insects; culture and varieties.
- Schery, Robert W.  
1952. Plants for man. 564 pp. Prentice-Hall, New York. (Fig, pp. 491-94. 4 figures.) General account with illustrations of branch, trees, and fruit.
- Seymour, E. L. D. (Editor)  
1946. The new garden encyclopedia. 1380 pp. Wm. H. Wise & Co., New York. (Fig, fig wasp, p. 479.) Popular account.
- Smith, Margaret B.  
1906. The first forty years of Washington society. 424 pp. Chas. Scribner's Sons, New York. (Fig, p. 360.) Conversation over menu for party in 1835: "No nuts, raisins, figs, etc.?" "Oh, no, no, ma'am, they are quite vulgar."
- Strenzel, J.  
1873. Cultivation of the fig in the United States. Amer. Pomol. Soc. Proc. 14:129-30. See also: U. S. Com. Agr. Rept. 1874:451. Brief account.
- Stringfellow, H. M.  
1906. The new horticulture. 146 pp. Farm and Ranch Publ. Co., Dallas, Texas. (Fig, p. 77.) Brief.
- Strong, W. C.  
1892. Fruit culture and the laying out and management of a country home. 231 pp. The Rural Publ. Co., New York. (Fig, p. 190.) Brief.
- Stuckey, H. P., and C. D. Mathews  
1926. Horticulture. 717 pp. Smith, Hammond and Co., Atlanta. (See: Chaps. 27, 28, pp. 338-70, illus.) Good general account; culture, varieties, diseases and insect pests, handling the crop.
- Taylor, C. Ralph, and Carl Van Doren  
1935. The world wide illustrated encyclopedia. 2 vols. Blue Ribbon Books, New York. (Fig, 1:1876, 1 figure.) Any tree or shrub of the genus Ficus; most important is the common fig with edible fruit.



Taylor, Norman

1936. Garden dictionary. 888 pp. Houghton Mifflin Co., Boston. (Fig, pp. 255-56. 1 figure.) Short account; White Adriatic, Kadota, and Mission erroneously marked as requiring caprification.

Taylor, W. A.

1894. Report of the Assistant Pomologist. In: U. S. Sec. Agr. Rept. 1893:277-96. (Figs, p. 280. See also pp. 30, 387.) General notes on climate, culture, yield, profits from canning; Chiswick collection of varieties from England distributed.

1898. The fruit industry, and substitution of domestic for foreign-grown fruits. U. S. Dept. Agr. Yearbook 1897: 305-44. Illus. (Figs, pp. 316-18. Color pl. 5.) Also in: U. S. Dept. Agr. Div. Pom. Bul. 7. Import figures; history; color plate of Smyrna and Adriatic figs.

Thomas, J. J.

1903. The American fruit culturist. 814 pp. Wm. Wood & Co., New York. (Fig, pp. 658-64.) (21st ed.) Rev. and enlarged by W. H. S. Wood. Short account of propagation, culture, and varieties.

Thomson, J. Arthur

1926. The new natural history. 3 vols. G. P. Putnam's Sons, New York. (The story of the Smyrna fig, 1:184-85.) Short popular account.
1935. Biology for every man. 2 vols. Edited by E. J. Holmyard. E. P. Dutton & Co., New York. (The story of the fig, 2:1146-49. Figure 375.)

Turner, W.

1901. Forcing fruits under glass. Amer. Gard. 22(318):58.
1903. Growing fruit trees in pots. Amer. Agr. 72(20):403.
1912. Fruits and vegetables under glass. 255 pp. A. T. De La Mare Co., New York. (Fig, pp. 158-65. Illus.) Detailed instructions for fig culture in special house.

Van Dersal, William R.

1943. The American land, its history and its uses. 215 pp. Oxford Univ. Press, New York. (Fig, pp. 91-92. Pl. 20.) Popular account.

Vilmorin, Maurice L. de

1894. Rapports sur l'Exposition Internationale de Chicago en 1893. 231 pp. Impr. Nationale, Paris. (Figuier, pp. 128-30.) Culture in California and southern States; handling the crop.

Wallace, J. B.

1923. Figs--domestic vs. oriental. *Packing House News* 2(10):13. Oct.

Ward, Artemas

1911. *Grocer's encyclopedia*. 748 pp. Artemas Ward, New York. (Fig, pp. 230-36.)

1923. *The encyclopedia of food*. 596 pp. The Editor, 50 Union Sq., New York. (Fig, pp. 192-97. Illus.) General account of fig wasp and caprification, drying and packing, United States and Smyrna.

Ward, J. W.

1854. The fig. *Hort. Rev. and Bot. Mag. (Cincinnati)* 4:179, 180. 2 illus. Short, general; flowers described.

Watson, Alexander

1870. *The American home garden*. 531 pp. Harper & Bros., New York. (Fig, pp. 343-45.) First ed. 1859. General account.

Waugh, F. A.

1908. *Systematic pomology*. 285 pp. Orange Judd Co., New York. (Fig, p. 211.) Short account; unable to find a single work in which fig varieties are described with the same care and completeness ordinarily given apples and pears; also almost entire lack of classification.

Wheldon, R. M.

1938. *Van Nostrand's scientific encyclopedia*. 1234 pp. D. Van Nostrand Co., New York. (Fig, pp. 458-59.) A garbled account of the fig and its flowers.

Whitten, J. C.

- (?) Fig. In: *The book of rural life, knowledge and inspiration*. 10 vols. Bellows-Durham Co., Chicago. (See specifically: 4:1977-79.)

Wilcox, E. V.

1944. *Modern farmer's cyclopedia of agriculture*. 497 pp. Orange Judd Publ. Co., New York. (Fig, pp. 198-99.) Account compiled.

Wilcox, E. V., and C. B. Smith

1904. *Farmers' cyclopedia of agriculture*. 619 pp. Orange Judd Co., New York. (Fig, pp. 250-52. Figures 253, 254.) Short general account.

Wilder, Louise B.

1932. *The fragrant path*. 407 pp. The Macmillan Co., New York. (Fig, p. 338.) Leaves of fig tree have a delicious odor which they keep for years when dried.

Williamson, Albert E.

1946. The encyclopedia of trees, shrubs, vines and lawns for the home garden. 486 pp. The Blakiston Co., Philadelphia. (Fig, p. 101.) Brief.

Wood, Alphonso

1880. Class-book of botany. 843 pp. A. S. Barnes & Co., New York. (Ficus carica, p. 635.) "With us reared only in sheltered locations as a curiosity."

Wright, Richardson

1938. The story of gardening. 475 pp. Garden City Publ. Co., New York. (Figs, see index.) Good historical notes.

Wright, Walter P.

1911. Illustrated encyclopedia of gardening. 322 pp. Everyman's Library. E. P. Dutton & Co., New York. (Fig, p. 146.) Short, general; poor illustration.

Youngken, H. W.

1943. Textbook of pharmacognosy. 1038 pp. (5th ed.) The Blakiston Co., Philadelphia. (Fig, pp. 277-78.) Short account of the plant, production and commerce, description of dried product.

#### UNITED STATES NORTH OF MASON-DIXON LINE

Anonymous

- 1831a. Figs in Philadelphia. Amer. Farmer 13:260. Figs grown by Joshua Longstreth, Arch St.
- 1831b. Figs in Washington, D.C. Genesee Farmer and Gard. Jour. 1:234. July 30. Fig in garden of Gen. Van Ness measured 8 1/4 inches circumference of trunk.
- 1833a. Fig tree on Nantucket Island. Boston Journal; The Nantucket Inquirer. Also in: Genesee Farmer 3:368; Amer. Farmer 15:273. A flourishing fig tree in one garden.
- 1833b. Fruit list from London Hort. Society's Garden. Genesee Farmer 3:265. Figs raised in New York in tubs.
1836. Cultivation of the fig. Silk Cult. and Farmer's Manual (Hartford, Conn.) 2:137. See also: Genesee Farmer 6:350. Mr. Averill has grown figs for ten years; method of winter protection.
1837. Premiums on Delaware figs. Delaware State Journal. Also in: Farmer and Gard. (Baltimore) 4:210. Premium to Eli Hilles.

- 1845a. Figs at New Haven. Indiana Farmer and Gard. Also in:  
West. Farmer and Gard. 5:270. Dr. Dwight, formerly Pres.  
of Yale College, cultivated figs in the open garden.
- 1845b. Figs on Long Island. Amer. Agr. 4:298. Figs successfully  
grown in the open air, trained against walls.
- 1860a. The fig. Genesee Farmer (2d ser.) 21:124-25. Illus.  
Brown Turkey best; other varieties mentioned.
- 1860b. Seedling fig. Amer. Agr. 19:114. Tree 3 years old but  
does not bear fruit.
1861. Figs. Amer. Agr. 20:326. Brief instructions for growing  
trees.
- 1863a. Drying figs. Amer. Agr. 22:261. Prefers fresh figs and  
cream.
- 1863b. Figs in tubs. Gard. Monthly (Kingston, Mass.) 5:18.  
Brief reply to inquiry.
- 1863c. Where to get fig trees. Amer. Agr. 22:199. List of  
nurseries handling fig trees.
1866. Profit in figs. Gard. Monthly 8:84. Generally sends to  
market 12 to 14 bushels of surplus crop; orchard on  
Chesapeake.
1869. Fresh figs. Amer. Agr. 28:20. Short suggestions on fig  
culture.
1879. Figs in Michigan. Amer. Agr. 38:401. Thomas Archer & Co.,  
at St. Joseph, obtaining success in growing figs.

Balthis, Frank K.

1944. Growing tropical fruits in the home. Flower Grower 31(1):  
17, 26. Fig tree will thrive outdoors as far north as  
St. Louis with winter protection.

Beckett, Edwin

1941. Fruits for the home garden. New York Bot. Garden Jour.  
42:133-40. (Figs, pp. 139-40. 1 figure.) Growing trees  
in tubs or in open ground; Brown Turkey the outstanding  
variety.

Benson, Martin

1886. Guide to fig culture in the open ground at the north, and  
catalogue of rare tropical fruits and plants. 8 pp.  
Swanwick, Illinois. (Fig, pp. 1-7.) Culture; price list  
and description of varieties.

Bidwell,

1874. Fig growing in Michigan. U. S. Com. Agr. Rept. 1873: 431. Successful cultivation of White Marseilles for several years; winter protection at South Haven.

Boswell, B. G.

1847. Fig tree in Philadelphia. Farmers Cabinet (Phila.) 12:160. Tree produces well without winter protection.

Brewster, Emma C.

1877. Fructification of the fig. Gard. Monthly 19:270-71. Has raised figs in open ground in Massachusetts for over 20 years.

Brink, V.

1950. How to grow figs in northern gardens. Gard. Chron. Amer. 55:124-25.

Broomfield, W. A.

1848. Notes and observations on the botany, weather, etc. of the United States of America made during a tour in that country in 1846 and 1847. Hooker's London Jour. Bot. 7:138-61. (Fig trees at Philadelphia, pp. 150-51.) Trees protected by buildings bear good crops of luscious figs.

Chamberlain, John W.

1919. Figs in the north. Gard. Mag. (New York) 29:238. Grown outdoors in pot in summer and continues growth indoors in winter.

Fowler, William

1866. Root pruning and winter protection of fig bushes. Gard. Monthly 8:74. From 20 fig bushes, each covering area of about 18 feet in diameter, gathered in one week four bushels of ripe fruit. In Chesapeake Bay region.

Goodsell, N.

1832. Fig trees in New York. Genesee Farmer and Gard. Jour. (Rochester) 2:341. Answer to "Inquirer" who complained of poor quality of fresh figs grown.

Harris, Joseph

1862. The rural annual and horticultural directory. Office of the Genesee Farmer, Rochester, New York. (The fig, pp. 80-81. 2 figures.) Brief account.

Hitchcock, A. S., and Paul C. Standley

1919. Flora of the District of Columbia and vicinity. U. S. Natl. Herbarium Contr. Vol. 21. 329 pp. Govt. Pr. Office, Washington, D.C. (Fig, p. 441.) Ficus carica is often found in waste ground especially about Alexandria.



Kinney, L. F.

1890. Catalogue of fruits. Rhode Island Agr. Exp. Sta. Bul. 7:27-58. (Brown Turkey fig, p. 49.) Growing on Station grounds.

Lyon, T. T.

1892. Fruit report. Michigan Agr. Exp. Sta. Bul. 88:3-30. (Brunswick fig cuttings planted, p. 30.)
1893. A year among fruits. Michigan Agr. Exp. Sta. Bul. 104:65-105. (Figs, p. 105.) Brunswick fig trees laid down and covered to protect from cold.
1895. Fruits at South Haven. Michigan Agr. Exp. Sta. Bul. 118:1-64. (Figs, p. 64.) Success practicable only with early varieties.

Meehan, Thomas

1861. Figs, winter protection. Gard. Monthly 3:312. White Ischia largest and best in vicinity of Philadelphia.

Needham, G. F.

1879. Fig culture at the north a success. 4 pp. G. F. Needham, Washington, D.C. Culture, prices of trees.

Pearce, Rex D.

1935. Catalogue of rare plants. Merchantville, New Jersey. (Fig, p. 73.) Tree thrives in a sheltered position as far north as New York. See also later catalogues.

Prince, Wm. R.

1848. Letter re. pomegranate and fig. Amer. Agr. 7:81. Winter protection at Flushing, Long Island.

Sanford, S. N. F.

1933. Ficus carica in Massachusetts. Rhodora 35:40. Jan. Fig bush growing on sunny side of an old shed.

Thorburn, Grant

1812. Gentleman and gardener's kalendar for the middle states of North America. 114 pp. Hardcastle and Van Pelt, New York. (Figs, pp. 71, 77, 95, 103.) Cultural directions.

Tillotson, Harry S.

1944. Figs in northern gardens. Flower Grower 31:263. May. Cuttings of White Adriatic planted in Philadelphia garden; other figs given elaborate winter protection.

Vansant, W. M.

1887. Figs at Philadelphia. Amer. Agr. 46:299. Trees grown in tub, removed to frost-free apartment; bear fruit twice a year.

Walker, Ernest

1888. Figs in plenty. Amer. Gard. 9(2):41. Trees planted in ground in spring and removed to cellar in the fall in Indiana.

Worthington, J. T.

1869. Manual of fig culture in the Northern and Middle states. 10 pp. Scioto Gazette Office, Chillicothe, Ohio. Experiences in Ohio; winter protection.

#### UNITED STATES SOUTH OF MASON-DIXON LINE

Adams, S.

1927. His pint size farm has a big bushel income. Florida Grower 35(12):9. May. Brunswick fig trees 8 years old; culture, markets, prices.

Affleck, Thomas

1842. Letter from Thomas Affleck, Washington, Mississippi, June 30. Amer. Agr. 1:153. "Figs now in perfection; certainly the greatest luxury in the fruit line I ever partook of."
1844. Letter from Thomas Affleck, March 5. Amer. Agr. 3:182. Orchard of 50 trees.
1850. Fruits and fruit culture. Farmer and Planter (Pendleton, S. C.) 1:182. "Of the twenty and odd sorts of fig trees in my orchard, the Celeste or Celestial is the general favorite; although some others are nearly equal in other respects and much larger and firmer."
1851. Affleck's southern rural almanac and plantation and garden calendar for 1851. (Figs, p. 67.) List of varieties. See also: calendar for 1852. (Figs, pp. 83, 99-100.) Fifteen varieties listed; trees at 50 cents each.
1854. The New Orleans almanac for the year 1854: with Affleck's plantation and garden calendar. Vol. 1. No. 2. New Orleans. (Figs for sale by Thomas Affleck, Washington, Miss., p. 64.)

Allison, R. V.

1931. Fruit and forest tree trials. Florida Agr. Exp. Sta. Rept. 1930-31:141-43. Celeste fig tree illustrated. Trees responded favorably to fertilizer treatment. See also: Rept. 1931-32:184-87. (Fig, p. 185.) Fig trees doing well.

Allison, R. V., et al.

1935. Fruit and forest tree trials. Florida Agr. Exp. Sta. Rept. 1934-35:106-8. (Fig, p. 106.) Trees made good growth but matured no crop.

Anderson, W. S.

1925. Report of horticultural work for 1925. Mississippi Agr. Exp. Sta. Bul. 232:8-16. (Fig, p. 12.) Sod vs. clean culture.
1926. Report of horticultural work for 1926. Mississippi Agr. Exp. Sta. Bul. 238:10-18. (Fig, p. 14.) Twelve varieties in test plots; none producing profitable crops.
1927. Horticulture; plant selection work. Mississippi Agr. Exp. Sta. Bul. 246:11-18. (Fig, p. 15.) Sod culture vs. mulch; behavior of varieties.
1928. Report of horticultural work for 1928. Mississippi Agr. Exp. Sta. Bul. 266:26-38. (Fig, p. 34.) Celeste dropped much of its crop before ripening; mulched plots show promise. See also: Report for 1929. Bul. 274:26-34. (Nematode control on Celeste fig, p. 30.) At least 50% more fruits set and ripened on mulched plot than on clean cultivated.
1931. Horticulture. Mississippi Agr. Exp. Sta. Bul. 297:9-12. (Fig, p. 10.) Under clean cultivation Green Ischia the only variety that produces satisfactory crops.

Anderson, W. S., and F. B. Richardson

1924. Report of horticultural work at the South Mississippi Experiment Station. Mississippi Agr. Exp. Sta. Bul. 225:9-19. (Fig, pp. 10, 16-17.) Sod vs. clean culture; notes on varieties.

Anonymous

1741. A description of Georgia by a gentleman who has resided there upwards of seven years and was one of the first settlers. 6 pp. Pr. for C. Corbet, London. In: Peter Force's Tracts, Vol. 2, No. 12. 1838. (Fig, p. 4.) Mentioned in a list of fruits.
1761. A description of South Carolina: containing many curious and interesting particulars relating to the civil, natural and commercial history of that colony. Pr. for B. and J. Dodsley, London. In: Historical collections of South Carolina. B. R. Carroll, New York. 1836. Vol. 2:194-272. (Fig, p. 249.) Figs of 3 or 4 sorts.

1778. Miscellaneous colonial documents. From the originals in the Virginia State archives. Virginia Mag. Hist. and Biog. 18:57-72. 1910. (Figs, p. 65.) (July 16, 1778.) Figs and raisins reshipped from Martinique.
- 1821-1822. Figs. Amer. Farmer 3:408, 416. Genoa and Large White varieties.
- 1835a. The fig. Southern Agr. 8:416-19. (Apparently by the Editor, A. E. Miller.) Oleification, culture, varieties.
- 1835b. Premiums on figs. Farmer and Gard. (Baltimore) 2:71. Maryland Hort. Society. \$2.00 premium to Robert Gilmore.
1837. Figs. Farmer and Gard. (Baltimore) 3:196, 356. Figs exhibited; plant trees or cuttings in March.
1839. Figs. Savannah Georgian. Also in: Southern Agr. 12:106. Winter injury; recipe for drying.
1841. The fig tree. Southern Agr. (n.s.) 1:107. Winter protection.
- 1846a. Dried Carolina figs. Southern Planter 6:142. Directions for curing.
- 1846b. Editorial. Southern Planter, Richmond, 6:133. Advice to a son on growing figs.
- 1846c. Editorial. Southern Planter 6:222. Winter protection of fig trees.
1848. Drying figs at the South (Alabama). Amer. Agr. 7:45. Methods given.
- 1851a. Report of the Committee on fruit. Farmer and Planter (Pendleton, S.C.) 2:17. Brief suggestions on fig culture.
- 1851b. Washington's birthplace. Richmond Whig, Oct. 14, 1851. Also in: William and Mary College Quart. Hist. Mag. 20: 19-20. A mammoth fig tree in midst of a 200-acre corn-field.
1855. Dried figs. Amer. Cotton Planter 3:240. Drying in oven.
1858. Advertisements. Amer. Cotton Planter 2. Several nurseries advertise fig trees for sale.
1859. Figs. Farmer and Planter (Columbia, S.C.) (n.s.) Vol. 1. Trees bear abundantly.

1860. Select fruits for the South. *Southern Cult.* 18:380-81. Several varieties of figs listed; four best are Celestial, Havanna, Brown Turkey, Green Ischia.
- 1869a. The fig, a suggestion. *Rural Carolinian* 1(1):31. Oct. Climate and soil suited to the fig.
- 1869b. Louisiana figs. *Southern Hort.* (Tangipahoa, La.) 1:54, 174, 197. *Southwestern Fruit Growers' Assoc. Proc.* at Terry, Miss., Jan. 13, 1869. Discussion on pickling, varieties.
- 1874a. Current facts. *In: U. S. Com. Agr. Rept.* 1873:272-89. (Drying figs at the South, p. 280.) No more difficulty in putting a first-rate article on the market than from Smyrna; varieties recommended.
- 1874b. Progress of industrial education. *In: U. S. Com. Agr. Rept.* 1873:321-63. (Figs planted at Oxford, Miss., p. 340.)
1885. Exhibit of figs. *Georgia State Hort. Soc. Proc.* 1885:49. A seedling of fine size and good quality.
1888. Figs. *Amer. Gard. and Floral Cabinet* 8(4):114. Grown at Baltimore in abundance.
1897. Historical and genealogical notes. *William and Mary College Quart.* 6:121-32. Stephen Webb, James River, planted "apricockes, figs and pear trees," in 1642.
1899. Figs. *Florida State Hort. Soc. Proc.* 12:83. Brief discussion of varieties and their behavior.
1901. Historical and genealogical notes. *William and Mary College Quart.* 9:268-72. Capt. William Pierce in 1624 had a fine garden in which he raised abundance of figs at Jamestown.
1906. The fruit garden. *Amer. Fruit and Nut Jour.* 3(67):5-6. Nov. Figs recommended: Celestial, White Adriatic, Brunswick, Brown Turkey.
1908. Orchard report of Baton Rouge Station. *Louisiana Agr. Exp. Sta. Bul.* 112:3-49. (Figs, pp. 11-27. Figures 4-12.) Classes of figs; descriptions and illustrations of many varieties.
- 1914a. Commercial fig growing. *Florida Grower* 10(10):25. June 6. Not practiced in Florida as yet.
- 1914b. Figs. *Florida Grower* 11(10):23. Dec. 5. Brief answer to correspondent on culture.



1917. Figs and poultry. Florida Grower 15(12):26, 27. March 24. Soil near Tampa not suitable for fig culture on account of nematodes.
- 1918a. The fig tree. Florida Grower 18(8):11. Aug. 24. Short account.
- 1918b. Smyrna-fig industry for the South possible. Florida Grower 17(3):27. Jan. 19. Fig insects introduced from California to Brunswick, Georgia.
1919. Figs in Florida. Florida Grower 20(18):29. Nov. 1.
1921. Fig growing. Florida Grower 23(17):22. April 23. Answer to inquiry about dropping of fruit; Zimmerman Bros., Oldsmar, fig growers.
- 1922a. Fig experiments in Georgia. Georgia Agr. Extension News. Also in: Fruit World (South Bend, Indiana), p. 12. Nov. Classes of figs, caprification, Smyrna-type seedlings.
- 1922b. Interest in fig growing increases. Florida Grower 26(19): 3. Nov. 4. More inquiries than usual.
1924. Protect the fig tree. Florida Grower 29(5):52. Feb. 2. Spray with Bordeaux mixture in early summer.
1934. Fig growing in Florida. Florida State Dept. Agr. Bul. 69:1-8. Revised ed. 13 pp. 1947. General account; culture, recipes, statistics.
1938. A graphic review of Florida agriculture. Florida State Dept. Agr. Bul. 99:1-175. Illus. (Figs, p. 100.) Varied trends, statistics.
1939. Wanted: a fig tree. Florida Grower 47(4):18. April. Editorial; culture discouraging on account of nematode injury.
1940. Maryland, a guide to the Old Line state. Writer's Program, WPA. Oxford Univ. Press, New York. (Fig, p. 437.) Houses on Smith Island with grassy yards and large fig trees.
1942. The home fruit garden in the southeastern and central southern states. U. S. Dept. Agr. Leaflet 219:1-8. (Fig, pp. 4, 5.)
1944. Fig for Florida shows promise. Florida Grower 52(12): 10. 1 illus. Dec. New Delta variety.

Ash, Thomas

1682. Carolina: or a description of the present state of that country and the natural excellencies thereof, publ. by T. A. Gent, Clerk on board his Majesties Ship the Richmond. Pr. for W. C., London. In: Historical Collections of South Carolina, B. R. Carroll, New York. 1836. Vol. 2: 60-120. (Fig, p. 64.) Listed with other fruits.

Ashley, T. E.

1940. Home orchards in Mississippi. Mississippi Agr. Exp. Sta. Bul. 350:1-37. Illus. (Fig, pp. 8, 33.) Celeste, Brown Turkey and Magnolia recommended. Revised ed. Bul. 393 by T. H. Jones and T. E. Ashley., 1943. See pp. 25, 34.

Ayers, E. L.

1926. Fruits for the sub-tropical home and small estate. Florida State Hort. Soc. Proc. 39:172-75. (Fig, p. 174.) By mulching or planting in wet soils, avoid root-knot injury.

Ayres, H. B.

1913. Figs in Florida. Florida Grower 9(1):22. Oct. 4.

Bachman, John

1840. On the cultivation of the fig tree in South Carolina. Amer. Farmer (n.s.) 2:276. Report to the Fruit Committee of the Hort. Society, July 16, 1840. Also in: Southern Cabinet (Southern Agr.) 1:602-3. Twelve or fourteen varieties introduced; named by color.

Bacon, C. A.

1898. Figs in Florida. Florida State Hort. Soc. Proc. 11:123-26. Quotes Gustav Eisen, 1901, "The fig", on botany. Yellow Smyrna variety most successful on east coast.

Bacon, C. A., et al.

1897. Figs. Florida State Hort. Soc. Proc. 10:105-6. Discussion; varieties.

Baker, C. H.

1898. Figs. Florida State Hort. Soc. Proc. 11:120-23. Celestial principal variety.

Barrett, Mary F.

1937. A leaf key to Florida broadleaved trees, native and exotic, except palms. 79 pp. Publ. by the author. (Ficus carica, p. 22.)

Barrow, D. N., and E. J. Watson

1905. Results of experiments in production and marketing of fruits and vegetables and canning on a small scale. Louisiana Agr. Exp. Sta. Bul. 81 (2d ser.):3-36. (Fig, p. 33.) Celeste and Brown Turkey do well; Madeline and other varieties too tender to cold.

## Bartram, John

1942. Diary of a journey through the Carolinas, Georgia, and Florida from July 1, 1765 to April 10, 1766. Annotated by Francis Harper. Amer. Phil. Soc. Trans. (n.s.) 32: 1-120. Illus. (Figs, pp. 23, 26, 29, 30, 51, 52, 54.) Various references to occurrence of trees and fruit.

## Bartram, William

1940. Travels through North and South Carolina, Georgia, East and West Florida. 414 pp. Ed. by Mark Van Doren. Barnes and Noble, New York. (Fig, pp. 62, 129, 132, 304, 326, 337, 343, 405, 407, 423, 460.) First ed. 1791. Comments on trees in various places.

## Bateman, L. L.

1913. Figs in Florida. Florida Grower 8(5):4. May 3. Notes on varieties.

## Beal, W. H.

1909. Fig culture in the South. U. S. Dept. Agr. Farmers' Bul. 342:19-26. Extracts from bulletins on culture, winter protection, handling the crop, pests and diseases.

## Berckmans, P. J.

1871. The fig, one of our neglected resources. Rural Carolinian 2:336-38. March 6. Also in: Gard. Monthly (Philadelphia) 13:314-15. Nomenclature of varieties confused; several described.

## Petts, Edwin M.

1944. Thomas Jefferson's garden book, 1766-1824. 704 pp. American Philos. Soc., Philadelphia. (Fig, see index.) Good historical notes.
1953. Thomas Jefferson's farm book. 552 pp. Univ. Press, Princeton. (Figs, p. 123.) Marseilles fig trees sent by Wm. Thornton.

## Beverley, Robert (1673-1722)

1947. The history and present state of Virginia. 366 pp. Ed. by Louis B. Wright. Univ. North Carolina Press, Chapel Hill. First published in 1705. "The almond, pomegranate and fig ripen very well, and yet there are not ten people in the country that have any of them in their gardens."

## Boggs, Kate D.

1932. Fruits and plants of old gardens. 101 pp. Garret and Massie, Richmond. (Fig, p. 10.) In the "Journal of a young lady of Virginia" 1782, there is this entry: We went to Stratford. . . and ate as many figs as we could.

Brickell, John

1737. The natural history of North Carolina. 417 pp. Pr. by James Carson, Dublin, for the author. (The figg-tree, p. 78.) Description of two sorts, the greater and the lesser.

Brown, Alexander

1898. The first republic in America. 688 pp. Houghton Mifflin & Co., Boston. (Figs, pp. 461, 488.) Trees brought from Bermuda in 1621.

Bruce, Philip A.

1935. Economic history of Virginia in the 17th Century. 2 vols. Peter Smith, New York. (Fig, 1:328; 2:200.) Fig and other fruit trees in all gardens; no way of using the superfluity of fruit.

Burnette, F. H.

1894. Figs at Baton Rouge. Louisiana Agr. Exp. Sta. Bul. 27 (2d ser.):927-28. Trees injured by severe freezes, but ten varieties bore fruit late in season; damage by borers.

1895. Figs at Baton Rouge. Louisiana Agr. Exp. Sta. Bul. 36 (2d ser.):1274. Celeste leads in popular favor.

Burr, Aaron

1929. Correspondence of Aaron Burr and his daughter, Theodosia, with a preface by Mark Van Doren. 349 pp. Covici-Friede, New York. (Fig, p. 175.) On St. Simon's Island, Georgia.

"Caleb"

1836. Letter from Pineland on figs. Southern Agr. 9:565-66. Suggests groves of figs on plantations to provide wholesome food for man and beast; uses.

Carman, Harry J.

1939. American husbandry. 582 pp. New York. By an American. Publ. originally in 1775. J. Bew, London. (Fig, pp. 268, 393.) Wild fig mentioned in South Carolina.

Chisholm, Robert

1848. Notes on southern fruit. Downing's Hort. (Beaufort, S.C.) 2:448-50. (Figs, pp. 448-49.) Two varieties, Alicante and Celestial.

Clayton, H. G.

1920. Observations of pecans and deciduous fruits in north and west Florida. Florida State Hort. Soc. Proc. 33:109-12. (Figs, p. 110.) Several quite extensive plantings in Escambia, Walton, and Bay counties.

Costakis, John

1924. Will figs do in Florida? *Florida Grower* 29(16):8. April 19. Experience in Greece but not in Florida.

Daniels, Jonathan

1941. *Tar heels: a portrait of North Carolina*. 347 pp. Dodd, Mead & Co., Toronto. (Fig trees on Roanoke Island, p. 32; at Raleigh, p. 252.)

Davis, J. R.

1913. Figs not a success. *Florida Grower* 8(7):13. May 17. One tree only at Bartow after 30 years persistency.

Dennett, Daniel

1876. *Louisiana as it is*. 288 pp. Eureka Press, New Orleans. (Figs, pp. 150, 151.) Varieties, crops, preserving.

Dunbar, William

1930. *Life, letters and papers of William Dunbar of Elgin, Morayshire, Scotland, and Natchez, Mississippi, pioneer scientist of the southern United States about 1790*. By Mrs. Dunbar Rowland. 410 pp. Mississippi Hist. Society, The Capitol, Jackson. (Figs, p. 99.) Three crops in a year; 3 or 4 kinds.

Earle, F. S.

1897. Fig culture in the Gulf States. U. S. Dept. Agr. Div. Pomology Bul. 5:23-32. Propagation, soil, culture, pests, varieties, uses.
1899. Orchard notes. Alabama Agr. Exp. Sta. Bul. 106:163-76. (Figs, pp. 169-70.) Freeze killed every fig tree in the state to the ground; a great bush rather than a tree; notes on Celeste and Green Ischia varieties.

Earle, Wm. H.

1904. Figs. *Florida State Hort. Soc. Proc.* 17:104. Popular account.

Elliot, H. S.

1915. Fig growing in Florida. *Florida Dept. Agr. Quart. Bul.* 25(4):7-14. Reprinted as *Supplement Quart. Bul.* 35(4):1-11. October, 1925. General account of culture, climate, varieties, diseases, handling the crop.

Eubank, H. Ragland

1934. *Touring historyland: The authentic guide book of historic northern neck of Virginia the land of George Washington and Robert E. Lee*. 108 pp. Northern Neck Assoc., Colonial Beach, Virginia. See pp. 39-43, describing Wakefield, birthplace of George Washington; fig trees found.



## Evans, Estwick

1819. A pedestrious tour. Vol. 8. In: Early western travels, ed. by R. G. Thwaites. 1904. A. H. Clark, Cleveland. (Fig, p. 330.) Gardens near New Orleans elegantly ornamented with orange and fig trees.

## F., J. J.

1846. Figs in Georgia. Southern Cult. (Augusta, Ga.) 4:122. Soils bountifully fitted for fig culture.

## Faux, W.

1823. Faux's memorable days in America, being a journal of a tour to the United States. 305 pp. W. Simpkin and R. Marshall, London. Vol. 12:12-138. In: Early western travels, ed. by R. G. Thwaites. 1905. (Fig, p. 95.) "I saw and ate ripe figs, pears, apples and plums in abundance." Charleston, South Carolina.

## Ferris, E. B.

1913. Truck crops for South Mississippi. Mississippi Agr. Exp. Sta. Bul. 163:2-24. (Figs, p. 8.) Natural home of the fig but tree does poorly in orchard form.
1927. Report of the South Mississippi Branch Station. Mississippi Agr. Exp. Sta. Rept. 40:47-57. (Figs, pp. 55, 57.) Twelve varieties watched with interest; sod vs clean culture.

## Floyd, W. L.

1913. Deciduous fruits for home consumption. Florida State Hort. Soc. Proc. 26:105-6. (Figs, p. 106.) Disappointing sometimes under orchard conditions; Celestial most reliable.
1916. Peaches and other deciduous fruits. Florida State Hort. Soc. Proc. 29:135-37. (Fig, pp. 136-37.) See also: Florida Grower 14(5):3, 4. July 29. Illustration of Celestial figs; notes on varieties, culture, diseases.

## Forbes, James G.

1821. Sketches, historical and topographical of the Floridas most particularly of East Florida. 226 pp. C. S. Van Winkle, New York. (Fig, p. 91.) Colony at New Smyrna in 1763 grew figs and other fruits.

## Fothergill, Mrs. Augusta B.

1921. Notes from the records of Surry County, Virginia, 1642-1656. Tyler's Quart. Hist. and Gen. Mag. 2:268-70. (Figs, p. 269.) Stephen Webb to plant one acre to fruit trees including fig in 1642.

- Fry, B. O.  
1948. Growing figs in Georgia. Georgia Agr. Exp. Sta. Press  
Bul. 594:1-2. (Mimeo.). Brief account of soils, varieties,  
setting the plants, culture, pests.
- Garris, Edward W., and G. P. Hoffmann  
1931. Southern horticultural enterprises. 551 pp. J. B.  
Lippincott & Co., Chicago. (Enterprises with figs, pp.  
379-92.) General account.
- Geldert, Louis N.  
1916. Facts about Georgia. 277 pp. Foote & Davies Co., Atlanta.  
(Fig, pp. 72, 122, 163. 2 figures.) Illustration of  
"monster" fig bush at Miley Bright Farm, Ingleside.
- Glen Saint Mary Nurseries  
1927. Figs are raised easily. Florida Grower 35:9. Jan. 8.  
Plant 300 trees to the acre; fruit from June to November.
- Gould, H. P.  
1919. Fig growing in the South Atlantic and Gulf states. U. S.  
Dept. Agr. Farmers' Bul. 1031:1-45. 24 illus. Rev. ed.  
1935. 34 pp. See also: Bol. Union Panamer. 69(1,2,5):  
60-75, 139-53, 433-47. Illus. A general account, culture,  
varieties, pests, methods of handling the crop.
- Gray, L. C.  
1933. History of agriculture in the southern United States to  
1860. 2 vols. Carnegie Inst., Washington, D.C. (Fig,  
see index.) Various references to early fig plantings.
- Greer, John C.  
1911. Figs. Georgia State Hort. Soc. Proc. 1911. In: Georgia  
State Board Ent. Bul. 35:21-27. List of varieties from  
H. N. Starnes 1903; culture, uses, shipping fresh.
- Griffing Brothers  
1913. The fig as a commercial crop of the lower south. 2 pp.  
Griffing Bros., Port Arthur, Texas.
- Griffing, C. M.  
1914. The fig as a home fruit and staple farm crop. Griffing's  
Service Bul. 11. 18 pp. Griffing Bros., Jacksonville,  
Florida. Publ. later as Bul. 76. Survey of industry,  
culture, recipes, varieties.
- Hall, Clayton C.  
1910. Narratives of early Maryland, 1633-1684. 460 pp. Charles  
Scribner's Sons, New York. (Apricocks, figs, and pome-  
granates prosper exceedingly, p. 82.)

Hamilton, Peter J.

1910. Colonial Mobile, an historical study. 594 pp. Houghton Mifflin Co., Boston. (Fig, pp. 105, 123, 299.) By 1720 fig tree introduced from Provence.

Hammond, Harry

1883. South Carolina. Resources and population, institutions and industries. 726 pp. Walker, Evans & Cogswell, Charleston. (Fig, p. 24.) Fig trees grow everywhere and produce abundantly.

Hampton, B. M.

1906. Report of standing committee on grapes, figs, and kaki. Florida State Hort. Soc. Proc. 19:60-63. Prefers Adriatic for drying.

Harvey, Sir John

1634. Colonial papers Vol. 8, No. 22. July 14. Gov. Harvey to Secr. Windebanke. In: Virginia Mag. Hist. and Biog. 8: 157. 1900. (Fig, p. 157.) A beginning with figs and other fruits.

Hatton, T. T.

1955. Fig culture in North Carolina. North Carolina Agr. Ext. Serv. Folder 115:1-5. Figures 1-3. Varieties, culture, pests.

Hayward, Wyndham

1939. Fig growing in Florida difficult. Florida Grower 47(4): 15, 17. 1 figure. April. Fig one of most favored hosts of root knot nematode; heavy mulching helpful.

Henderson, F. P.

1910. Deciduous fruits of Florida. Florida State Hort. Soc. Proc. 23:151-53. (Fig, p. 152.) Celestial best variety.

Henderson, J. T.

1885. Fig in Georgia. Georgia State Dept. Agr. Pub. 11(part 2): 341. "The solution of the hidden mystery, why figs will sour in drying, must be achieved."

Hewett Bros.

1899. Varieties and methods of cultivation of the fruits of the South. The Hammond Nursery, Hammond, La. (Figs.) Varieties, winter injury.

Hilton, William

1663. A relation of a discovery lately made on the coast of Florida. In: Tracts and other papers by Peter Force, Vol. 4, No. 2. 27 pp. Washington, D.C. 1846. (Figs, p. 8.) Country abounds with grapes, figs and peaches.

Hitt, W. N.

1908. The dropping of figs in spring. *Amer. Fruit and Nut Jour.* 5(87):13-14. July. Fig flowers, types of figs, culture, varieties. "Any unfavorable condition of soil or moisture, of drought or poverty that makes the plant uncomfortable, will be sufficient to account for its barrenness."

Hodgdon, A. L.

1808. Letter. *Amer. Fruit and Nut Jour.* 5(91):18. Nov. Put up 59 quart jars of fig preserves from a few fig bushes bearing large figs, St. Mary's County, Maryland.

Holley, Wm. de Forest

1853. Letter on figs. *Amer. Cotton Planter* 1:181. Trees ranging from 8 to 15 inches in trunk diameter at Mobile, Alabama.

Holmes, Francis S.

- 1852? Southern farmer and market gardener. 249 pp. Charleston. (Fig, p. 156.) Article compiled; propagation, culture, list of varieties.

Hoppin, Charles A.

1926. The house in which George Washington was born. *Tyler's Quart. Hist. and Gen. Mag.* 8:73-103. (Fig trees, p. 99.) Historical account; a mammoth fig tree in the midst of a 200-acre corn field; also a dense thicket of shrubby fig trees covering a circular space nearly 50 feet in diameter.

Howe, Henry

1845. Historical collections of Virginia. 544 pp. Babcock & Co., Charleston, South Carolina. (Fig, p. 405.) Fig and pomegranate flourish without protection at Northampton, Maryland.

Hume, H. H.

1915. In: L. H. Bailey. *Standard cyclopedia of horticulture.* 6 vols. The Macmillan Co., New York. (Figs in the southeastern and Gulf states, 3:1234-35. Pl. 42.) Short general account; varieties; illustration of young Celeste tree.
1919. Figs do not mature. *Florida Grower* 20(22):33. Nov. 29. Complaint about splitting of fruit; larger figs such as Magnolia, Brunswick, and Lemon split more than small ones.
1929. *Gardening in the lower South.* 453 pp. The Macmillan Co., New York. (Fig, p. 382.)

Hunt, B. W.

1910. Horticultural notes on the Smyrna fig. Georgia State Hort. Soc. Proc. 34:57-63. Figs ripened as result of hand pollination; planted hundreds of Smyrna seedlings.

1914. The fig in Georgia. Georgia State Col. Agr. Bul. 2:89-94. Also in: Georgia State Hort. Soc. Proc. 38:79-83. Results of fig breeding; notes on varieties.

Irving, Washington

1857-1860. Life of George Washington. 5 vols. G. P. Putnam's Son & Co., New York. (Fig, 1:17.) Birthplace of Washington; "Not a vestige of it remains. Two or three decayed fig trees with shrubs and vines, linger about the place."

Jefferson, Thomas

1853. Notes on the State of Virginia, 1781, by Thomas Jefferson. 275 pp. A new edition, J. W. Randolph, Richmond. (Fig, p. 181.) "Everything hardier than the olive, and as hardy as the fig may be raised here in the open air."

1903-1904. The writings of Thomas Jefferson. The Thomas Jefferson Memorial Assoc. 6:176, 177, 180, 200. (Fig in France, 1787, pp. 176, 177, 180. Fig in America, p. 200.) Notes on fig culture at Marseilles, Toulon, and Hyeres.

Johnson, Judge (William)

1831. Figs. Southern Agr. 4:425. Also in: Amer. Farmer 13:204. Culture, medicinal properties, drying.

Jordan, W. T.

1945. The Elisha F. King family planters of the Alabama black belt. Agr. Hist. 19:152-62. July. "Grapes, figs, apples and peaches were grown."

Kalb, Mrs. Benigna G.

1913. Figs as a home fruit. 2 pp. In: Griffing Bros., Port Arthur, Texas. The fig as a commercial crop of the lower South.

Kennon, Mrs. Elizabeth B.

1809. Kennon Letters. Mrs. Kennon to Rachael Mordecai, Jan. 8. In: Virginia Mag. Hist. and Biog. 31:296-99. (Fig bushes at Mecklenburg still bearing fruit in 1920, p. 297.)

Kiely, P. M.

1888. Southern fruit and vegetable shippers' guide and manual. St. Louis. (Figs, p. 46.) Sales of fresh figs limited to small shipments.



- King, G. H.  
1943. Georgia Coastal Plain Exp. Sta. Bul. 36:11-114. (Figs, pp. 109, 114.) Trees grow best near buildings; susceptible to cold and nematode attacks.
- Lacy, T. Jay  
1888. Fruit culture for the Gulf States south of latitude 32 degrees. Mount Hope Nursery, Alexandria, La. (Figs, p. 29.) Short cultural notes.
- LePage, Du Pratz  
1758. Histoire de la Louisiane. 3 vols. De Bure, Paris. (Figures, 2:20.) Either violet or white, large and of a very good flavor.
- Lockwood, Alice G. B.  
1931-1934. Gardens of Colony and State. 2 vols. Publ. for the Garden Club of America by Chas. Scribner's Sons, New York. (Fig, 2:117, 303, 372.) St. Simon's Island, Georgia; "there was a garden planted in figs, grapes and other fruits."
- Lovell, Caroline C.  
1932. The golden isles of Georgia. 300 pp. Little, Brown & Co., Boston. (Fig, p. 74.) John Couper, Saint Simons Island, grew figs in 1806.
- McQuarrie, C. K.  
1919. The home orchard. Florida Grower 19(18):40, 42, 43. May 3. Advocates mulching mature trees; Celeste, Brown Turkey, Green Ischia ripen in order given.
- McQueen, Anne  
1926. Figs worth a fig. Florida Grower 33(4):12, 13. 1 figure. Jan. 23. Figs a specialty of Gypsy Products Co., Chaires, Florida.
- Manning, Robert  
1880. Sketch of the history of horticulture in the United States up to the year 1829. In: History of the Massachusetts Hort. Society 1829-1878. Boston. (Abstract, p. 27.) Figs found in 1773 by Wm. Bartram in Georgia and near New Orleans.
- Manville, A. H.  
1889. Subtropical fruits. Amer. Pomol. Soc. Proc. 22:62-70. (Fig, p. 66.) Single tree of White Adriatic at Eustis, Florida, bore 1000 figs.

Martinez, Bartoleme al Rey

1577. Letter to King. La Habana, 17 Febrero de 1577. Transl. in: Jeannette T. Connor's Colonial Records of Spanish Florida. (Fig, 1:245.) Fig trees planted on Parris Island, South Carolina.

Martyn, Benjamin

1761. An impartial enquiry into the state and utility of the province of Georgia. 104 pp. W. Meadows, London. (Fig, p. 11.) Mentioned only with other fruits.

Mason, Z. H.

1875. The fig: its culture and preparation for market. Florida Fruit-Growers' Assoc. Proc. (Jacksonville), Jan. 20-23: 41-42. Also in: Florida: its scenery, climate and history. 336 pp. Sidney Lanier, Philadelphia. (Fig, p. 294.) Propagation, culture, drying of fruit; one tree produced 10 to 12 bushels of figs.

Massey, W. F.

- 1890a. Report of the horticulturist. North Carolina Agr. Exp. Sta. Rept. 13:18-21. (Fig, p. 19.)
- 1890b. Work of the horticultural division, 1890. North Carolina Agr. Exp. Sta. Bul. 74:3-20. (Figs, pp. 17, 18-20.) Culture, winter protection, varieties.
1891. Report of the horticulturist. North Carolina Agr. Exp. Sta. Rept. 14:22-26. (Fig, p. 23.) Demand for trees great.
1892. Fig culture in North Carolina. Gard. and Forest 5(201). See also: Agr. Science 6:44; Amer. Pomol. Soc. 1892.
1893. The propagation, planting and culture of fruit trees. North Carolina Agr. Exp. Sta. Bul. 92:5-63. (Fig, pp. 28-30, 48, 63.) Propagation, culture, varieties.
1894. Horticultural tests and results. North Carolina Agr. Exp. Sta. Bul. 94:4-19. (Figs, pp. 16-17.) Over 30 varieties.
1895. Figs in North Carolina. Gard. and Forest 8:386. Winter protection; 100 seedlings four years old.
1903. The culture of orchard and garden fruits. North Carolina Agr. Exp. Sta. Bul. 184:88-125. (Fig, pp. 123-25. Figures 14, 15.) Culture, winter protection, curing.
1909. Fig culture in Carolinas. Vol. 2:586. In: L. H. Bailey. Cyclopedia of American horticulture. The Macmillan Co., New York.

Menendez, Pedro

1579. A la Audiencia de Santo Domingo, San Augustin, 2 Abril de 1579. Transl. in: Jeannette T. Connor's Colonial Records of Spanish Florida. (Fig, 2:227.) Beginning to be many of the fruits of Spain such as fig.

Michaux, Francois A.

1805. Travels to the westward of the Allegany Mountains in the states of the Ohio, Kentucky and Tennessee and return to Charlestown, through the upper Carolinas. Undertaken in 1802. Transl. by B. Lambert. 350 pp. J. Mawman, London. (Fig, pp. 335, 348.) (2d ed.) D. N. Shury for B. Crosby and Co., London. 1805. 294 pp. (Figs, pp. 291-92.) Also in: Vol. 3:111-306. Early western travels. Ed. by R. G. Thwaites. Figs sour after maturity, due to humid climate.

Mohr, Charles

1901. Plant life of Alabama. 921 pp. Brown Pr. Co., Montgomery. (Ficus carica, pp. 136, 822, 831.) Reprint of U. S. Natl. Herbarium Contrib. vol. 6. Trees found on coastal plain to lower hills.

Moore, Francis

1735. A voyage to Georgia begun in the year 1735. Containing an account of the settling of the town of Frederica-- and a description of the soil, etc. Reprinted in: Georgia Hist. Soc. Collect. 1:79-152. (Fig, pp. 99-100.) Mentioned with other fruits.

Morgan, H. A., and F. H. Burnette

1893. Horticultural report. Louisiana Agr. Exp. Sta. Bul. 22 (2d ser.):679-720. (Figs, pp. 682-83.) Longicorn beetle attacks tree; list of varieties.

Mowry, Harold

- 1925a. Fig rootstock. Florida Agr. Exp. Sta. Rept. 1924-25: 67R-68R. Figure 3. Experiments with rootstock, P.I.No. 52406; illus. of Ischia tree on this stock.
- 1925b. Growing figs in Florida. Florida State Hort. Soc. Proc. 38:92-97. Also in: Florida Fruits and Flowers 4(3-4): 13-14, 18. March-April. 1926.

Mowry, Harold, and G. F. Weber

1925. Hints for the Florida fig grower. Florida Grower 32(7): 6, 12. 1 figure. Aug. 15. Major varieties described; cultural notes, diseases, rootstocks resistant to nematodes.

## Mehrling, Henry

1933. The plant world in Florida. From published ms. of Dr. Henry Mehrling. Coll. and ed. by Alfred and Elizabeth Kay. 304 pp. The Macmillan Co., New York. (Ficus carica, p. 173.) Brief account.

## Newman, J. S.

1906. Southern gardeners' practical manual. 220 pp. Publ. by the author, J. H. McFarland Co., Harrisburg, Pa. (Figs, pp. 191-93.) Marketing, culture, notes on varieties.

## Nuttall, Thomas

1821. Journal of travels into the Arkansas Territory in 1819. 296 pp. T. H. Palmer, Philadelphia. (Figs, pp. 79, 232, 243.) Also in: Vol. 13:301, 314. Early western travels, 1748-1846. Ed. by R. G. Thwaites. At Natchez, fig succeeded extremely well; orchards near New Orleans.

## Orr, Mrs. Lucinda Lee

1871. Journal of a young lady of Virginia 1782 (1787). 56 pp. Printed and publ. for the benefit of the Lee Memorial Assoc. of Richmond, by John Murphy and Co., Baltimore. (Fig, p. 23.) "Went to Stratford, walked in the garden, sat about two hours under a butifull shade tree and ate as many figs as we could."

## Phillips, E. M.

1896. The southern farmer's, gardener's, and fruit raiser's guide. 410 pp. Little Rock, Ark. (Figs, p. 261.) Culture, notes on varieties.

## Phillips, M. W.

1844. Letter. Amer. Agr. (New York) 3:364. Near Jackson, Miss.: "The fig--go south of us for the best but not north of us for better."
1846. Plantation economy. Southern Agr. 6:225. Mention of ripe figs.

## Porcher, Francis P.

1849. Report of the indigenous medicinal plants of South Carolina. Amer. Med. Assoc. Trans. 2:677-862. (Ficus carica, p. 758.) Tree flourishes.
1869. Resources of the southern fields and forests; being also a medical botany of the southern states. 733 pp. Walker, Evans & Cogswell, Charleston. (Ficus carica, pp. 349-51.) Popular account.

## Price, J. C. C.

1929. Report of the horticultural department. Mississippi Agr. Exp. Sta. Ann. Rept. 42:18-22. (Fig, p. 19.) Celeste only satisfactory variety.

Ravenel, H. W.

1878. Barrenness in the fig tree. Gard. Monthly and Hort. 20: 85-86. Tree barren 1873-1876 in spite of good pruning and care; Lemon fig not so successful as Celestial and Brown Turkey.

Reasoner, P. W.

1891. Tropical and semi-tropical fruits in Florida and the Gulf states in 1887. U. S. Dept. Agr. Div. Pom. Bul. 1:7-110. (Fig, pp. 89-95.) History, culture, varieties.

Reck, Philipp G. F. von

1734. An extract from the journals of Mr. Commissary von Reck who conducted the first transport of Saltzburgers to Georgia. 72 pp. M. Downing, London. (Fig, pp. 12-15.) Fig and other fruit trees in nursery near Savannah.

Redmond, D.

1858. Pomological resources of the South. Amer. Pomol. Soc. Proc. 7:201-13. (Fig, pp. 210-11.) Abstracted in: U. S. Patent Office Rept. (Agr.) 1858:377-85. Fig requires least care of all fruits in South.

1874. The fig, its origin, history, propagation, culture, uses and commercial value to the Gulf States with an appendix, containing directions for drying, preserving and pickling the fruit. Fruit Growers Assoc. of the Gulf States, New Orleans, Feb. 12, 1874. Partly in: Southern California Hort. 1(12):381.

1875. The fruits of our Gulf coast. Amer. Pomol. Soc. Proc. 15: 54-59. (Fig, pp. 56-57.) The "fruit for the million"; no disease whatever.

1889. The fig and the pomegranate. Amer. Pomol. Soc. Proc. 22: 95-98. Short, general account.

Reed, Harrison

1889. The fig industry in Florida. Amer. Pomol. Soc. Proc. 22: 93-95. Abstracted in: Amer. Gard. 10:142-43. Culture, markets for fresh fruit.

Reimer, F. C.

1910. Fig culture in North Carolina. North Carolina Agr. Exp. Sta. Bul. 208:187-206. Figures 1-13. Abstracted in: U. S. Dept. Agr. Farmers' Bul. 430:7. General account of sites, climate, soil, propagation, culture, winter protection, harvesting, marketing, varieties, dropping of fruit.

Rice, James H.

1923. Concerning the fig. Columbia (So. Carolina) State. Sept. 11. Popular account of history and distribution.



## Rowland, Thomas

1861. Letters of Major Thomas Rowland, C. S. A. from North Carolina 1861 and 1862. In: William and Mary College Quart. Hist. Mag. 25:73-82. Oct. 1916. Figs plentiful at Newbern, South Carolina.

## Ruffin, W. A.

1933. The Alabama home orchard. Alabama Poly. Inst. Exten. Serv. Cir. 138:1-20. (Fig, pp. 2, 4, 5.)

## Sale, Edith T.

1830. Historic gardens of Virginia. (Rev. ed.) 376 pp. Richmond. (Mt. Vernon figs, pp. 151, 154.) "A row of fig bushes stands beside the box-hedge, and doubtless the children after lessons would delight in their abundance."

## Sandford, Robert

1666. Relation of a voyage on the coast of the Province of Carolina. Pp. 82-108. In: Narratives of Early Carolina, 1650-1708. Ed. by Alexander S. Salley, Jr. 388 pp. 1911. Chas. Scribner's Sons, New York. "Figge trees very large and faire."

## Shecut, John L. E. W.

1806. Flora Carolinaeensis: or, a historical, medical and oeconomical display of the vegetable kingdom. 2 vols. Typ. John Hoff, Charleston. (Fig, 1:566-67.)

## Short, Peyton

1910. Tour of Mobile, Pensacola, etc., by Peyton Short of Kentucky in 1809. In: Hist. and Phil. Soc. of Ohio Quart. Publ. 5(1):5-15. (Fig, p. 14.) "Below the 31st degree of north latitude, figs and oranges grow in great perfection."

## Shrigley, Nathaniel

1844. A true relation of Virginia and Maryland (1669). Pr. by Thomas Milbourne for T. Hudson, London. In: Peter Force's collection of historical tracts, vol. 3, tract 7. Pr. in Washington by W. A. Force. (Fig, p. 5.) "Figg-trees" in orchard with other fruits.

## Simpson, J. J.

- 1939-1940. Fig horticulture. 8 pp. J. J. Simpson, Atlanta. Nursery catalog giving prices and directions for culture. "All southern coastal states should set millions of fig bushes for commercial use."

Small, John K.

1913. Flora of the southeastern United States. (2d ed.) 1394 pp. Publ. by the author, New York. (Fig, p. 362.) Short botanical description; escaped from cultivation Virginia to Tennessee, Florida and Texas. See also: Manual of southeastern flora. 1933. (Fig, p. 439.) 1554 pp. Publ. by the author, New York.

Smith, Captain John

1910. Travels and works of Captain John Smith, President of Virginia and Admiral of New England, 1580-1631. Ed. by Edward Arber. New ed. by A. G. Bradley. 2 vols. John Grant, Edinburgh. (Figges, 2:627, 887, 905, 907.) "Mistresse Pearce--hath a garden at Jamestowne, containing three or four acres; where in one yeare she hath gathered neere a hundred bushels of excellent figges."

Smith, J. Lee

1928. Fruits for North Florida home orchards. Florida Grower 36(9):19. Sept. Celeste and Brown Turkey figs listed.

Smith, John Hay

1873. American horticulture. Gard. Monthly 15:69, 190. Practicable to grow figs; dry them in a kiln.

Snyder, Ethel

1940. Florida trees. A practical handbook. 150 pp. Geddis Pr. House, Fort Myers. (Ficus carica, p. 81.) Sparingly grown in Florida.

Spooner, John J.

1793. A topographical description of the County of Prince George, in Virginia, 1793. In: Tyler's Quart. Hist. and Gen. Mag. 5:1-11. 1923. Repr. from: Collections of Mass. Hist. Soc. 3:85-93. 1794. (Fig, p. 8.) "The almond and the fig will grow here in the open ground, if attended to."

Stanard, W. G.

1894. Abstracts of Virginia land patents. Virginia Mag. Hist. and Biog. 1:436-52. (Figs, p. 447.) Refers to garden of Mistress Pearce at Jamestown.

Stanley, F. E., R. B. Johnson, and M. D. Woodin

1947. Production and marketing of fruits and vegetables in the Baton Rouge trade area in 1946. Louisiana Agr. Exp. Sta. Bul. 425:1-15. (Figs, pp. 10, 12.) Average price \$1.00 per bucket.

Starnes, H. N.

1893. Figs. Georgia State Hort. Soc. Proc. 1893:49, 55. Figs badly winter-killed; variety notes.

- 1903a. The fig in Georgia. Georgia Agr. Exp. Sta. Bul. 61:49-74. Pls. 1-15. Figures 1-3. General account of inflorescence and classification, culture, varieties.
- 1903b. The Georgia fig, its possibilities and promise. Georgia State Hort. Soc. Proc. 27:46-56.
- 1907a. Fig culture. Amer. Fruit and Nut Jour. 4(69):11-13. Jan. Propagation, cultural methods, varieties.
- 1907b. Some notes on figs. Amer. Pomol. Soc. Proc. 30:88-95. 2 illus. Nomenclature of figs badly mixed; variety notes; pecan and figs interplanted in Louisiana.
- 1907c. Random notes on the 31st annual session of the Georgia State Horticultural Society. Amer. Fruit and Nut Jour. 4(78):8-10. Peau Dure one of the most promising fig varieties although White Ischia still holds its own in point of quality.

Starnes, H. N., and J. F. Monroe

1907. The fig in Georgia (second report). Georgia Agr. Exp. Sta. Bul. 77:41-101. Pls. 1-5; 64 text figures. Nomenclature and synonymy of varieties, leaf types, description of varieties, Smyrna fig culture.

Steele, W. C.

1887. Fig culture in Florida (St. Johns County). Amer. Gard. and Floral Cabinet 7:378. Popular account of culture and varieties.

Stubbs, W. C.

1896. Figs. Louisiana Agr. Exp. Sta. Bul. 42 (2d ser.):1536. Celeste the favorite variety; fig borer frequently destroys trees. See also; Bul. 52 (2d ser.):323. 1898. Forty-four varieties of figs at Baton Rouge; fig orchards near canneries profitable.

Stuckey, H. P.

1932. Shipping containers for Georgia fruits. Georgia Agr. Exp. Sta. Ann. Rept. 45:40. Mention made of experiments.

Sturrock, David

1940. Tropical fruits for South Florida and Cuba and their uses. 131 pp. Arnold Arboretum and Harvard Univ., Jamaica Plain, Mass. (Fig, p. 77.) Nematodes chief drawback to growing figs.

Summer, William

1858. Prize essay on pomology. Farmer and Planter (Columbia, S. C.) (n.s.) 1:347. Fig trees easy of culture; variety notes.

Swingle, W. T., et al.

1893. Fig in Florida. Florida Hort. Soc. Ann. Meet. Proc. 6:51.  
Discussion on culture; one 20-acre planting made.

Sydnor, Charles S.

1938. A gentleman of the old Natchez Region, Benjamin L. C. Wailes. 337 pp. Duke Univ. Press, Durham, North Carolina. (Fig, p. 83.) "His favorite fruit was figs. The days of the first and last mess were carefully noted in his diary."

Thursby, Isabelle S.

1927. Florida fruit and vegetable production and conservation. In: Rural home life in Florida. Florida Dept. Agr. Quart. Bul. 1927:142-98. Illus. (Fig, pp. 143, 148, 167, 172.) Fig trees most numerous in north and middle Florida; Celeste and Brown Turkey recommended.

Wailes, B. L. C.

1842. Fruits cultivated in Mississippi. Western Farmer and Gard. (Cincinnati) 3:153-56. Short account and illustrations of a yellow fig, the Celeste, and a third black fig.

Walker, Cornelius

1919. History of the Agricultural Society of South Carolina, founded Aug. 24th, 1785. 168 pp. Charleston. (Fig, p. 63.) Premium list of 1807 included figs; never became a staple crop.

Walmsley, Mrs. Frank

1949. Sub-tropical fruits in St. Petersburg home gardens. Florida State Hort. Soc. Proc. 62:242-45. (Figs, p. 244.) Figs a liability owing to rootknot; Ficus gnaphalocarpa a possible rootstock.

Warner, Helen G.

1886. Florida fruits and how to raise them. By Helen Harcourt (pseud.) 332 pp. J. P. Morton & Co., Louisville. (Figs, pp. 258-65, 330-32.) Quotes from Gustav Eisen (1901), The Fig; culture in Florida, varieties, uses.
1889. Home life in Florida. By Helen Harcourt (pseud.) 433 pp. J. P. Morton & Co., Louisville. (Figs, p. 106.) Nowhere can fig be brought to greater perfection than in Florida; fruit drier used for figs.

Watson, E. J.

1907. Summary of work with vegetables and fruits. Louisiana Agr. Exp. Sta. Bul. 90:3-47. (Figs, p. 42.) List of varieties; notes on hardiness.

Wester, P. J., and W. C. Steele

1907. Report of Committee on grapes, figs and persimmons.  
Florida State Hort. Soc. Proc. 20:27-34. Fig culture in  
experimental stage.

White, W. N.

1868. Gardening for the South, or how to grow vegetables and  
fruits. With additions by J. Van Buren and James Camak.  
444 pp. Orange Judd Co., New York. (Fig, pp. 363-67.)  
Description of twelve varieties.

Wilson, Samuel

1682. An account of the Province of Carolina in America. Pr.  
for Francis Smith by G. Larkin, London. In: Historical  
collections of South Carolina, by B. R. Carroll, New York,  
1836, vol. 2:20-35. (Fig, p. 25.) Fig and other fruit  
trees thrive.

Wylie, J. H.

1905. Report on figs and kaki. Florida State Hort. Soc. Proc.  
18:62-63. Celestial most valuable fig variety; good  
demand for preserves.

Wylly, Charles S.

1910. Seed that was sown in the colony of Georgia. 163 pp.  
Neale Publ. Co., New York. (Fig, pp. 133-34, at Frederica,  
1742.) Homes made more attractive by culture of orange,  
vine, fig, and mulberry.



UNITED STATES WEST OF MISSISSIPPI RIVER  
Excluding Texas and California and Including Hawaii

Amend, Bert R.

1921. The fig in Oregon. Oregon Bd. Hort. Bien. Rept. 16:148-49.  
Also: Rept. 17:215-19. 3 illus. 1923.

1925a. Commercial fig culture in the Northwest. 6 pp. 1 illus.  
Willamette Fig Gardens, Portland, Oregon. Varieties;  
planting and culture.

1925b. Tests prove that figs do well in Oregon. Better Fruit  
19(10):9, 10. 2 illus. Varieties described; planting and  
cultural hints.

1927. Figs, now a proven product of the climate and soil of the  
Pacific Northwest. 3 pp. Willamette Fig Gardens, Portland,  
Oregon. Nursery catalog and circular.

1928. Fig raising in Oregon. Better Fruit 23(5):12, 16. 1 illus.  
Short account of culture and varieties.

1931. Fig growing in the Pacific Northwest. Better Fruit 25(9):  
24. 1 figure.

1934. Why you should grow a fig tree. Better Fruit 28(8):16.  
Uses of tree and fruits; varieties.

1937. Why you should plant a fig tree. 5 pp. Illus. Willamette  
Fig Gardens, Portland, Oregon. 1938 ed. 5 pp. Illus. 1939  
ed. 5 pp. Illus. Nursery catalog and description of  
varieties.

1955. The migration of the fig. Pacific Gardens and Homes 23(1):  
925. Illus. Fig tree in Old and New World; personal ex-  
periences in culture; varieties for the Northwest.

Anonymous

1922. Pioneer work of B. R. Amend in fig culture in Oregon.  
Portland Oregonian. Also in: Fig and Olive Jour. 6(7):6,  
7. More than 1,000 fig trees growing in Portland, 5 acres  
to be planted; 25 varieties grown by Amend.

1942a. The home fruit garden in the Central Southwestern states.  
U. S. Dept. Agr. Leaflet 221:1-8. (Fig, p. 5.) Celeste  
and Brown Turkey recommended.

- 1942b. The home fruit garden in the Pacific Coast states and Arizona. U. S. Dept. Agr. Leaflet 224:1-8. (Fig, p. 5.) Mission and Kadota recommended.
- Blandford, Ruth  
1936. Fig orchard yields crop in Portland. Portland Oregonian, Farm and Garden Section 55(17):3. Brief popular account.
- Blizzard, W. L.  
1950. Science serving agriculture. Oklahoma Agr. Exp. Sta. Bien. Rept. 1948-50. Part 1. 61 pp. (Figs being tested, p. 33.)
- Callen, C. L.  
1928. The story of the great 101 Ranch--Oklahoma. Amer. Mag. 106:54-55, 147, 148. Illus. (Figs, pp. 148, 150.) Fig trees bearing in experimental orchard.
- Carey, Charles H.  
1936. A general history of Oregon, prior to 1861. 2 vols. Metropolitan Press, Portland. (Fig, 2:681.) Hudson's Bay Co. farm at Vancouver, 1836, had fig trees in abundance.
- Coit, J. E.  
1908. Smyrna fig culture. Arizona Agr. Exp. Sta. Ann. Rept. 19:345-46. Four varieties of Smyrna figs and two capri-figs grown; caprifigged figs attacked by fig beetle.
- Cottam, Walter P.  
1946. Some bio-ecological factors of Utah and Britain contrasted. Utah Acad. Sci. Arts and Lett. Proc. 23:83-90. Abstracted in: Biol. Abs. 21:2364. "Tropical plants such as figs and magnolias grow in England. These will not grow in Utah."
- Crider, F. J.  
1926. Essentials to successful fruit culture in Arizona. Arizona Agr. Exp. Sta. Bul. 117:337-95. (Fig, pp. 340, 343, 346.) Variety lists for different elevations.
- Cross, F. B.  
1934. Many varieties of fruits being tested. Oklahoma Agr. Exp. Sta. Rept. 1932-34:237-42. (Figs, p. 242.) Three varieties produced fruit on suckers from frosted trees; Magnolia best.
- Draper, Fred  
1940. Anybody can grow figs. Arizona Farmer 19(26):12. Brief popular account.

Ehrhorn, E. M.

1911. Report of the Superintendent of Entomology. Hawaii Bd. Commr. Agr. and Forestry (Bien.) Rept. 1909-10:125-47. (Figs and fig insects, p. 138.) Fig wasp established and luscious figs produced; varieties of Smyrna figs and caprifigs introduced.

Frear, Mary D.

1929. Our familiar island trees. 161 pp. The Gorham Press, Boston. (Fig, p. 88.) Only one kind of fig seen in the market; mynah bird especially enjoys figs.

Garcia, Fabian

1901. Orchard notes. New Mexico Agr. Exp. Sta. Bul. 39:99-130. (Fig, pp. 126-27.) Usually killed to ground every year by frost.

Gaston, Joseph

1912. The centennial history of Oregon. 3 vols. S. J. Clarke Publ. Co., Chicago. (Figs, 1:330.) From diary of Narcissa P. Whitman, Fort Vancouver, Sept. 12, 1836: "fig trees in abundance".

Hawley, A. T.

1891. Fig culture in northwestern Oregon. Oregon State Bd. Hort. Bien. Rept. 1:130-33. Observations on fig culture; quotes from Gustav Eisen bulletin No. 1, 1901.

Hillebrand, W. F.

1888. Flora of the Hawaiian Islands. 673 pp. B. Westermann & Co., New York. (Fig, p. 408.) Cultivated in two or three varieties; fruits well but subject to attacks of a wood beetle, Saperda sp.

Jarrett, Lorna H.

1933. Hawaii and its people. 319 pp. Star-Bulletin, Honolulu. (Fig, p. 113.) Grown in small quantities; between 1909 and 1919 ravaged by fruit fly; supply increasing; Island of Maui largest producer.

King, C. J., and A. R. Leding

1926. Agricultural investigations at the United States Field Station, Sacaton, Arizona, 1922, 1923 and 1924. U. S. Dept. Agr. Cir. 372:1-45. Illus. (Fig, p. 33.) Brown Turkey and Mission figs have outyielded the rest.

King, C. J., et al.

1938. Agricultural investigations at the United States Field Station, Sacaton, Arizona, 1931-35. U. S. Dept. Agr. Cir. 479:1-64. Illus. (Figs, p. 54.) Eleven varieties growing; some have died or are injured by nematodes.

Kinnison, A. F.

1928. Deciduous fruits for southern Arizona. Assoc. Arizona Prod. 7(May 1):6. Brief reference.

Lawrence, W. H.

- 1916a. Practical fig culture in Arizona. Arizona Agr. Exp. Sta. Bul. 77:1-43. Figures 1-14. A general account; propagation, culture, varieties, and pests.
- 1916b. A study of the factors limiting the use of the fig tree for shade and for fruit production in the arid Southwest, with special reference to practical fig growing in Arizona. Thesis, M. A. (Typed.) State College of Washington, Pullman.

Lockwood, F. C.

1932. Pioneer days in Arizona. 387 pp. The Macmillan Co., New York. (Fig, p. 221.) According to Father Kino, fig trees growing in gardens about 1700.

McClatchie, A. J., and J. Eliot Coit

1916. Relation of weather to crops and varieties adapted to Arizona conditions. Arizona Agr. Exp. Sta. Bul. 78:45-118. (Figs, pp. 74-75.) Figs satisfactory up to 3500 feet elevation; Mission most valuable variety.

Magistad, O. C.

1936. Hawaii Agr. Exp. Sta. Rept. for 1936:1-96. (Figs at the Kona Station, p. 95.) Kadota and Mission trees growing well; many cuttings distributed.

Neal, Marie C.

1929. In Honolulu gardens. 336 pp. Bernice P. Bishop Mus. Spec. Pub. 13. Honolulu. (Ficus carica, p. 100. Figure 16e.) Smyrna fig grows at corner of Poki St. and Wilder.
1948. In gardens of Hawaii. 805 pp. Bernice P. Bishop Mus. Spec. Pub. 40. Honolulu. (Fig, p. 265. Figure 122e.) Common fig, "piku, fiku"; popular account.

Noble, E. G.

1922. The work of the Yuma Reclamation Project Experiment Farm in 1919 and 1920. U. S. Dept. Agr. Dept. Cir. 221: 3-37. Illus. (Figs, pp. 28-29.) Results of work with seedling figs, variety tests; Blastophaga introduced.

Oehme, F. G.

1891. Some notes from my fruit garden. Oregon State Bd. Hort. Bien. Rept. 1:114-15. (Figs, p. 114.) Brief.

## Oregonian

1894. The Oregonian's handbook. 631 pp. Oregonian Publ. Co., Portland. (Figs, pp. 210, 591.) Near Medford, figs raised to perfection; quotes from article by A. T. Hawley, 1891.

## Pope, W. T.

1925. Report of the Horticultural Division. Hawaii Agr. Exp. Sta. Rept. 1924:4-10. (Figs, p. 9.) Culture given setback with advent of fruit fly; cuttings of Mission and Kadota distributed.

1928. Report of the Horticultural Division. Hawaii Agr. Exp. Sta. Rept. 1927:3-13. (Figs, p. 11.) Four varieties of figs, especially the Kadota, fruited heavily; cuttings distributed. See also: Rept. 1931:17-27. (Fig, pp. 25, 26, 33.) Fig listed among plants under observation.

## Poulsen, E. N., et al.

1941. Soil survey. The Casa Grande area in Arizona. U. S. Dept. Agr. Soil Survey Ser. 1936, No. 7. 94 pp. (Figs, p. 77.) Several fig orchards planted and with care should do well.

## Rhoten, E. A.

1925. Luther Burbank visits Oregon's fig gardens. Pacific Homestead (Dec. 10), p. 3. Popular account of visit to B. R. Amend's Willamette Gardens.

## Roys, Ruby (Paul Joy)

1942. Pioneer grower knows all about figs adapted to climate of Northwest. Oregon Journal (Portland), Home Mag. (Oct. 11), pp. 6, 8, 9. (Oct. 18), pp. 10, 11. Popular article re. work of B. R. Amend.

## Smith, Jared G.

1902. Figs. Hawaii Agr. Exp. Sta. Rept. 1902:319. Figs thrive luxuriantly at all districts below 5,000 feet elevation; in parts of Kona, the enormous crops of fruit borne by the trees are either allowed to rot or fed to the pigs.

## Stubbs, W. C.

1901. Report on the agricultural resources and capabilities of Hawaii. U. S. Dept. Agr. Off. Exp. Sta. Bul. 95:3-100. (Fig, pp. 41, 43, 62, 64.) Fig production diminished on account of attacks of the mynah bird.

## Swingle, W. T.

1928. New crops for Arizona and the improvement of old ones. Assoc. Arizona Prod. 7(6):3, 5, 10-11, 13. Biskra fig resistant to leaf mottle.



Vinson, A. E., et al.

1919. The Yuma Mesa. Arizona Agr. Exp. Sta. Bul. 89:223-63. (Figs, pp. 259-60. Figure 19.) Three acres of Adriatic figs on the old Blaisdell Ranch.

Wilder, G. P.

1911. Fruits of the Hawaiian Islands. 247 pp. Illus. Hawaiian Gazette Co., Honolulu. (Fig, pp. 14-19. Pls. 5-7.) Short account; poor illustrations.

Wyllie, H. C.

1850. Address of Mr. Wyllie before Royal Hawaiian Agricultural Society on 12th of August, 1850. Royal Hawaiian Agr. Soc. Trans. 1:36-49. (Fig, p. 46.) Trees planted by Marin, Jan, 1813.

### TEXAS

Anonymous

1909. An expert on Magnolia figs. Gulf Coastings, May 1.
1918. Texas fig outlook. Fig and Olive Jour. 2(12):10. Fig crop injured by frost.
- 1923a. The commercial aspect of the Magnolia fig. Houston Real Estate & Indus. Jour. Aug. Illus. Progress of the industry; statements from growers.
- 1923b. Fig canning possibilities. Canner 57(3):30. Short.
- 1923c. Fig production in Southern Texas. Packing House News 2(10):17.
- 1925a. Fig canning plant. Canner 61(26):45. Plant of W. C. Tyrrell Trust near Houston.
- 1925b. New fig preserving plant. Canner 60(18):45. Plant at Alvin, one of four to be built by Texas Farm Bureau Fig Association.
- 1925c. Now a fig week. Canner 61(19):36. Advertising campaign.
- 1925d. Plan big fig orchard in Texas. Canner 60(13):39.
- 1925e. Texas canned and glassed figs. Canner 61(18):30. Gaining popularity in the United States.
- 1925f. Texas notes. Packing House News 4(2):40. Short.
- 1926a. Fig growers build own cannery. Canner (Aug. 21), p. 25. Westcalder plant, Beaumont.

- 1926b. Fig industry hopeful despite urgent marketing needs. Galveston Daily News (Oct. 1), p. 34.
- 1926c. The Texas Magnolia fig. 4 pp. Chamber of Commerce, Houston. Short, general.
- 1927a. Dry weather cuts Texas fig crop in half. Canner 65(16): 21. Estimated 50% reduction; prices quoted.
- 1927b. Organize Texas Fig Packers Association. Canner 64(17):35. See also: California Fruit News 75 (Apr. 16):15.
- 1927c. Paragraphs for the fig packers. Canner 64(26):42. Texas City Cannery; Navy bids for figs.
- 1927d. Texas fig crop late; attractive prices named. Canner 65(8):36.
- 1927e. Texas fig outlook. New York Jour. Commerce. Also in: California Fruit News 75(Mar. 26):7. Statistics.
- 1928a. Preserved figs, the new industry of Texas. Canning Age (July), pp. 625-27.
- 1928b. Texas fig packers. Canner 67(16):17.
- 1928c. Texas fig packers form Institute. California Fruit News 77(Mar. 17):13. Corporation devoted to educational and scientific work in interest of Texas fig industry.
- 1928d. Texas fig situation. New York Jour. Commerce. Also in: California Fruit News 78(Sept. 22):17. Texas Fig Association reports industry in sounder condition than for many years.
- 1928e. Texas growers will boost fig industry. Los Angeles Times Farm and Orchard Mag. (Apr. 15), p. 6. Texas Fig Association.
- 1928f. Will pack fig juice. Canner 67(6):33. Riverside Products Co., Sheldon, has 100 acres in figs.
1929. Texas Gulf Coast fig production. California Fruit News 79(June 29):4. Production, prices, grades.
1931. Twentieth century figs. Canner 72(9):29, 30.
1933. Research reveals multiple Magnolia fig products are possible, even fig wine. Galveston News, Oct. 29. Account of work by H. M. Reed at Angleton Exp. Station.

1937. Texas fig decline and revival. California Fruit News 96(Aug. 21):13. Overplanting caused decline; revival due to good prices.

Bell, Arthur

1926. The fig situation in Texas. California Ann. Fig Inst. Proc. 10:20-22. (Mimeo.) General account.

Binford, E. E.

1917. Progress report, Substation No. 1, Beeville, Texas, 1910-1914. Texas Agr. Exp. Sta. Bul. 214:5-27. (Figs, p. 26.) Uncertain and trees soon die of root rot.

Bizzell, W. B.

1924. Rural Texas. 477 pp. The Macmillan Co., New York. (Figs, p. 199.) The commercial demand for figs justifies extension of fig plantings.

Blume, C. J.

1924. Cost of growing figs in south Texas. Prog. Farmer 39 (Nov. 8):1065.

Bookman, W. F.

1923. Fig culture fast becoming biggest industry of County. Galveston News, Oct. 1. Account of acreage and preserving plants.

Bracht, Viktor

1931. Texas in 1848. Transl. from the German by C. F. Schmidt. 223 pp. Naylor Pr. Co., San Antonio. (Fig, pp. 35, 154.) Fig trees thrive in the vicinity of Bexar and produce a great deal of fruit.

Brunk, T. L.

1890. Report of the Horticulturist. Texas Agr. Exp. Sta. Ann. Rept. 1889:17-53. (Fig varieties, p. 49.)

Bushway, R. H.

1911. Possibilities of the fig industry. Texas Dept. Agr. Bul. 22 (14th Texas Farmers' Congress):185-86. Brief.

Carpenter, J. C.

1924. The skinless preserved fig industry. Houston Chron., May 25. Historical account of beginnings of the industry; "Magnolia fig whose true name is Brunswick."

Clymer, M. G.

1927. Texas figs. Canner 66(2):24. Expected that 1928 will be banner year, depending on care of trees, weather conditions, and salesmanship.

Condit, Ira J.

1941. Commercial fig culture. Pacific Rural Press 141:134. Short general account of Texas figs.

Connell, J. H.

1897. Trees, plants and vines set at the State Experiment Station, Beeville. Texas Agr. Exp. Sta. 9th Ann. Rept. 1896:923-26. (Figs, p. 925.) Varieties.

Conner, A. B.

1926. Figs. Texas Agr. Exp. Sta. Ann. Rept. 39:18-19, 67, 68. Fertilization, control of rust, handling the crop. See also: Rept. 40:19, 89, 91. 1927; Rept. 41:23, 27, 101, 103. 1928. Fertilizers, pruning, control of pests, varieties, breeding of figs. Rept. 42:15, 19, 28, 111, 112, 113, 114. 1929.

Crawford, Carlton

1926. The Texas fig industry. Canning Trade (Apr. 26), p. 18. Status of the industry; formation of Texas Fig, Inc.

Darling, W. M.

1923. Fig raising believed the coming industry in coastal counties. Houston Post, July 1. Illus. Notes on a trip of inspection of fig orchards led by Prof. A. T. Potts.

Dixon, S. H.

- 1909-1910. The Magnolia fig. Southern Orchards and Homes, April 24, 1909; May, 1910. Quotes Gilbert Onderdonk, 1909.
1913. ABC of fruit growing. Texas Dept. Agr. Bul. 32. 160 pp. Illus. Von Boeckmann-Jones Co., Austin. (The fig, pp. 59-62, 119-22. Figure 19.) Account of varieties, soil, culture, planting, marketing.
1923. The Texas fig industry is safe and dependable. Farmer's Union Messenger, July 15. Also in: Fig Grower's Jour. Kansas City, 1(1):14-16. Short account of the industry, varieties, culture, profits.

Durst, C. E.

1927. Rambles of a horticulturist. Amer. Fruit Grower Mag. 47(6):5. Short general account of fig industry of Texas.

Dyer, J. O.

1924. Wonderful story of figs, their past and future. Galveston News, May 20. History, legends, Biblical records, capri-fication, figs as food.

Fairbanks, R. B.

1925. The fig industry of Texas. Amer. Fruit Grower Mag. 45(4): 8, 20. Illus. Trees on sandy land killed out by nematodes; present condition of industry.

Fruit, Walter E.

1924. Texas fruit industry and its possibilities. Houston Post, March 2. Also in: Houston Chron., March 2. Soils, sites, probable returns, marketing organization.

Cabbard, L. P., and C. A. Bonnen

1937. Statistics of Texas agriculture. Texas Agr. Exp. Sta. Cir. 80:1-103. (Figs, pp. 98, 99, 100, 101.) Farm value, gross and cash income of orchards.

Geiser, Samuel W.

1945. Horticulture and horticulturists in early Texas. 100 pp. Univ. Press, Dallas. (Fig, pp. 4, 5, 16.) Various references including biographical sketches of Thomas Affleck, Gilbert Onderdonk, and others.

Hastings, S. H., and R. E. Blair

1915. Horticultural experiments at the San Antonio Field Station, southern Texas. U. S. Dept. Agr. Bul. 162:1-26. (Figs, p. 19.) Fig varieties, including Mission and Magnolia, grown without irrigation.

Hines, G. D.

1928. Trade Bul. No. 1, 2 pp.; No. 2, 2 pp.; No. 3, 2 pp. (Mimeo.) Texas Fig Assoc., Houston. Association announces to food distributors it represents 95% of pack; standardization; advertising.

Hinson, C. W.

1909. Commercial fig growing in the coast country. Texas Dept. Agr. Bul. (Twelfth Texas Farmers' Congress 1909) 10:141-43. Culture, yields and returns of Magnolia fig.

Holley, Mary A.

1833. Texas. Observations in a series of letters. 167 pp. Armstrong and Plaskitt, Baltimore. (Fig, p. 136.) Mention only.

Kennedy, Arthur B.

1944. Will the fig industry come back in Texas? Farm and Ranch 63(1):6. History, production, culture; overproduction and marketing difficulties main causes of failure.

Kone, E. R.

1909. Some facts about Texas. Texas Dept. Agr. Cir. (n.s.) 2: 5-31. (Figs, p. 12.) Brief account.

Lanham, W. B.

- 1925a. Making money out of Magnolia figs. Texas Agr. Exp. Sta. Ext. Serv. Cir. 37:1-8. Production, preserving, marketing.



- 1925b. Texas figs. Country Gent. 90(36):92. Ups and downs of the industry; Texas Farm Bureau Fig Growers Assoc. to handle crops.
- 1925c. Texas Magnolia figs. Amer. Fruit Grower Mag. 45(8):8. Present condition and needs of the industry.
- Lanham, W. B., and R. H. Wyche  
1926. Horticultural projects. Texas Agr. Exp. Sta. Ann. Rept. 39:18-19, 67, 68. Fertilizers, fig rust, varieties.
- Lawrence, A. B.  
1840. Texas in 1840. 275 pp. W. W. Allen, New York. (Fig, pp. 111, 147, 148.) Short.
- Lewis, R. D.  
1949. Agricultural research in Texas 1947-49. 201 pp. College Station, Texas. (Figs, p. 129.) One selection, Green Ischia X Hamma, chosen for vigor, cold hardiness, and productiveness; 55 varieties under test.
- Mackie, D. B.  
1928. An investigation of the Mexican fruit fly, Anastrepha ludens (Loew), in the lower Rio Grande Valley of Texas. California Dept. Agr. Mo. Bul. 17:295-323. Illus. (Fig, pp. 312, 315, 318.) Fig not planted commercially.
- Neill, W. H.  
1928. Fig growing in Van Zandt Co., Texas. Amer. Fruit Grower Mag. 48(1):21. Texas Wonder, variety most commonly grown; an orchard of 3 acres.
- Onderdonk, Gilbert  
1909. Pomological possibilities of Texas. Texas Dept. Agr. Bul. 9:1-55. Illus. (Figs, pp. 22-24. Figure 23.) Rev. ed. Bul. 18:24-27. Figure 26. 1911. Culture.
- /Page, Fred B./  
1845. Prairiedom: rambles and scrambles in Texas. 166 pp. Paine and Burgess, New York. (Fig, p. 77.) Mention only.
- Pomeroy, Eltweed  
1913. Fruit possibilities in the Rio Grande Delta. Texas Dept. Agr. Bul. 33:215-22. (Figs, p. 218.) Grows luxuriantly and fruits ripen from July to December.
- Potts, A. T.  
1917. The fig in Texas. Texas Agr. Exp. Sta. Bul. 208:5-41. 13 figures. Climatic requirements, propagation, culture, varieties, pests and diseases, handling the crop.

## Price, R. H.

1902. Annual report of the Department of Horticulture and Mycology. Texas Agr. Exp. Sta. 13th Ann. Rept. 1901: 130-33. (Figs, p. 131.) Mention only that the fig orchard bore a good crop.

## Price, R. H., and E. A. White

1902. The fig. Texas Agr. Exp. Sta. Bul. 62:17-29. Pls. 1-12. Varieties, culture, handling the crop.

## Rankin, Melinda

1850. Texas in 1850. 199 pp. Damrell and Moore, Boston. (Figs, p. 91.) First in lists of fruits.

## Reed, H. M.

1934. Drying Magnolia figs in Texas. Fruit Prod. Jour. 13: 370, 371, 377. Sundrying or dehydration following sulfur treatment yielded attractive product.

1939. Horticultural activities at Substation No. 3. Coastal Cattleman 5(5). July.

## Roe, A. W.

1925. Commercial possibilities of the southern fig. Packing House News 4(1):9, 33. 3 figures.

## Roemer, Ferdinand

1849. Texas. 464 pp. Adolph Marcus, Bonn. (Feigenbaume, pp. 11, 79.) Commonly planted.

## Scholl, E. E.

1922. Orchardling in Texas and nursery inspection. Texas Dept. Agr. Bul. 72. Short account of fig production.

## Skinner, R. D.

1926. Fig preserving plant (Ange-ton) is doubling size. Galveston Daily News (May 30), p. 10. Illus. Account of the enlarged plant; product called Fignolias put out in 1-pound boxes and 10¢ packages.

## Stansel, R. H.

1928. Fig production. Texas Agr. Exp. Sta. Ann. Rept. 41:23, 101. Liming the soil, pruning trees, control of rust, and variety test.
1931. Fig orchard management. Texas Agr. Exp. Sta. Ann. Rept. 44:20, 121, 126, 168. Pruning, varieties.

Stansel, R. H., and H. M. Reed

1932. Fig investigations. Texas Agr. Exp. Sta. Ann. Rept. 45: 134, 135-36, 142. Variety trials, pruning experiment, products. See also: Rept. 46:23, 148-50. 1934. Frost injury, pruning, products. Rept. 47:21, 157-60. 1934. Breeding, pruning, products. Rept. 50:32, 186. 1937. Adaptability of varieties, breeding, processing.

Stansel, R. H., and R. H. Wyche

1932. Fig culture in the Gulf coast region of Texas. Texas Agr. Exp. Sta. Bul. 466:1-28. 14 figures. Culture, varieties, control of pests and diseases, handling the crop.

Stansel, R. H., S. H. Yarnell, and H. M. Reed

1935. Fig investigations. Texas Agr. Exp. Sta. Ann. Rept. 48: 28, 165, 173, 269. Varieties, breeding, processing fruit, control of nematodes. See also: Rept. 49:32, 193, 194-96, 202, 313. 1936. Continuation of previous projects.

Stiles, H. C.

1909. Semi-tropical fruits in Texas. Texas Dept. Agr. Yearbook 1908:238-46. (Fig, p. 243.) Several thousand Smyrna-type figs planted; fig wasp to be introduced.

1923. Galveston section best for figs; demand is ever growing. Galveston News, Oct. 1. Illus. Outlook for figs, production, location of plantings.

Stockwell, W. A.

1909. The Magnolia fig. Texas Dept. Agr. Yearbook 1908:253-54. Also in: So. Orchards and Homes (Sept.), p. 9. Short, general account.

Thomas, Theodore G.

1907. The modern guide for fruit and truck shippers and poultry raisers in the southern states. 459 pp. Thomas Wilson Publ. Co., Houston. (Fig, p. 140.) Varieties and culture.

Traub, H. P., and G. S. Fraps

1928. Ripening and composition of the Texas Magnolia fig; preliminary report. Amer. Soc. Hort. Sci. Proc. 25:306-10. Figures 1A-D; tables 1, 2. Ripening process and characteristics of the fig, chemical composition.

Traub, H. P., and R. H. Stansel

1930. Lateral root spread of the fig tree. Amer. Soc. Hort. Sci. Proc. 27:109-13. Figure 1, table 1. Abstracted in: Texas Agr. Exp. Sta. Bul. 61:23-24. 1931. Five to six-year old trees had a root spread of 50 feet.

Van Velzer, A. C.

1908. Fig culture in southeast Texas. Texas Dept. Agr. Bul. 5 (Eleventh Texas Farmers' Congress):117-20. States that Texas is flooded with fig literature. "I have read hundreds of pages of this matter and can say truthfully that I have not found a misstatement of facts in any of it."

1909. Fig culture. 218 pp. 52 figures, 2 pls. J. V. Dealy Co., Houston. A general account based largely on Texas experience.

Welch, J. H.

1944. Fruits from far and wide. Texas Farming and Citr. 20(7): 7, 14. (Fig, p. 14.) Brief account; only home production advisable in Rio Grande Valley.

White, Mrs. J. A.

1925. Figs should be grown on every valley farm. Valley Farmer and Citrus Grower 3(10):3.

Winters, N. E.

1918. Progress report, Substation No. 3, Angleton, Texas, 1909-1916. Texas Agr. Exp. Sta. Bul. 229:1-38. (Figs, p. 36.) Trees sometimes freeze to the ground here.

Yarnell, S. H., R. H. Stansel, and R. H. Wyche

1930. Fig experiments. Texas Agr. Exp. Sta. Ann. Rept. 43:18, 107, 110, 145. Varieties, fig breeding, orchard management.

#### CALIFORNIA TO 1900

Anonymous

1854a. Fig trees. California Farmer 2(5):35. In orchard of E. L. Beard, San Jose.

1854b. Report of the committee on fruit. California Farmer 1(1): 1. Prizes for best figs at Agricultural fair, by Warren and Son, San Francisco.

1856. Figs in Los Angeles County. California State Agr. Soc. Rept. 1856:16-17. Three-year old trees of White Ischia and Brown Turkey had borne delicious fruit.

1858. Smyrna figs. California Culturist 1:186. Tree introduced by General Sutter prolific; fruit exhibited at State Fair.

1859. Report of Visiting Committee. California State Agr. Soc. Trans. 1858:166-299. (Fig, pp. 223, 232, 278, 285, 286, 287.) Seedling figs produced by Major Redding, Cottonwood; 1000 fig trees in nursery at Sacramento; Jerome Davis, whose place later became the University Farm, had figs growing in 1858.
1860. San Joaquin Valley Agr. Soc. Trans. and 1st Ann. Rept. 1860. (Figs, pp. 48, 315.) Vincent Galgiano & Co., Stockton, had 150 Italian or Smyrna fig trees.
- 1861a. California State Agr. Soc. Trans. 1860:57, 79, 308. Seven varieties of figs exhibited at State Fair.
- 1861b. San Joaquin Valley Agr. Soc. Trans. and 2d Ann. Rept. 1861. (Figs, pp. 116, 123, 132, 147, 170.) Figs have done exceptionally well this year; several varieties mentioned.
1863. San Joaquin Valley Agr. Soc. Trans. and 3d Ann. Rept. 1862-63. (Figs, pp. 48, 132.) Every person in California could have a tenth part of a fig tree.
1873. Experiments in the culture of figs in California. New York Tribune. Also in: Jour. Hort. and Cottage Gard. (London) 25:155.
- 1887a. The fig of commerce. Fresno Weekly Republ. 11(40):3. Also in: Pacific Rural Press 33:545. Account of trip of W. B. West to Asia Minor for fig cuttings.
- 1887b. Picking and drying figs. Stockton Independent. Also in: Semi-Trop. Planter 1(4):57. Buhach Mfg. Co. owned extensive nursery and dealt largely in fig stock.
- 1887c. The Smyrna fig problem. Pacific Rural Press 34:57. Editorial on probable success of wily Smyrnans in fooling California with useless variety.
- 1888a. The fig of commerce. California Fruit Grower 2(10):9.
- 1888b. Grow more figs. Oroville Register. Also in: California Fruit Grower 2(2):9.
- 1888c. Those Smyrna figs again. California Fruit Grower 2(12):4.
1889. Fig culture. California Fruit Grower 3(15):3.
- 1890a. California figs. San Francisco Sunday Chron. 51(11). Jan. 26. Attempts to introduce the Smyrna type; varieties.
- 1890b. New crop figs. California Fruit Grower 7(10):154.



- 1890c. That wonderful country. 50 pp. California View Publ. Co., San Francisco. (Figs, pp. 13, 17. 3 illus. in color.) Production in California; orchard of E. W. Maslin, Loomis.
1891. The aid of fig growing. Riverside Daily Press, Aug. 7. Also in: San Francisco Chronicle.
- 1892a. California figs. California Fruit Grower 11(15):301. First carload of dried figs went east from Fresno in 1889.
- 1892b. Dry culture for figs. California Fruit Grower 11(10):176. James Stewart, Downey, stopped irrigating orchard; W. D. Woolredge, Escondido, has large orchard of Adriatic fig.
- 1892c. Fig. California Fruit Grower 10(May 28):345. Also in: L. H. Bailey. Annals of horticulture in North America, pp. 17-19. Rural Publ. Co., New York. Editorial on prospects for California fig industry.
- 1892d. Smyrna fig. Pacific Rural Press 44:460. George Roeding has received no less than ten consignments of caprifigs but blastophagas not established.
- Ashley, Mrs. W. D.  
1882. About figs. Pacific Rural Press 23:258. Kinds to grow.
- Bancroft, Hubert H.  
1890. History of California. 7 vols. The History Co., San Francisco. (Fig, 7:42.) Fig tree prolific but Black Turkey, the staple variety, not in favor for export; Adriatic introduced. Also in: The works of Hubert Howe Bancroft. Vol. 24:42. 1890.
- Bleasdale, J. I.  
1881. Fig trees, the selection of sorts and curing. Pacific Rural Press 22:315. Portuguese method of picking figs with long cane cupped at end; drying and packing.
- Brockett, L. P.  
1884. Our western empire. Wm. Garretson & Co., San Francisco. (Fig, p. 162.) Brief account.
- Bryant, Edwin  
1936. What I saw in California in the years 1846, 1847. 481 pp. The Fine Arts Press, Santa Ana. (Fig, pp. 316, 376, 408.) Trees found at Santa Clara, San Luis Obispo, San Fernando.
- Burt Davy, Joseph  
1899. Smyrna Figs. Pacific Rural Press 58:340-41. Based on notes of lecture by W. T. Swingle before Microscopic Society of San Francisco; varieties, caprification.

Capron, E. S.

1854. History of California. 356 pp. J. B. Jewett & Co., Boston. (Fig, p. 111.) Figs produced for more than half a century.

Chipman, N. P.

1889. Report upon the fruit industry of California. 35 pp. California State Bd. of Trade, San Francisco. (Figs, pp. 11, 19.) Dried fig production; some Mission trees attained height of 60 feet and a trunk circumference of 12 to 15 feet.

Clarke, James

1937. An emigrant of the fifties. The letters of James Clarke (1854-56). Ed. by David Davies. In: Hist. Soc. So. California Quart. 19:99-119. (Fig, pp. 111, 112, 115, 116, 118.) Figs grow in luxurious abundance.

Clifford, Josephine

1871. Tropical California. Overland Monthly 7:297-312. (Fig, pp. 311, 312.) Illustration of Ficus carica "giganteus" in neglected garden; gives dimensions.

Cronise, T. F.

1868. The natural wealth of California. H. H. Bancroft and Co., San Francisco. 696 pp. (Figs, p. 366.) Finer varieties being grown extensively from which cured figs of best quality will probably soon be made.

Denicke, M.

1888. Denicke gets back at the fig business. Fresno Evening Expositor 14(29):1. See also: Expositor 14(28):2.

1889. The fig. Fresno Expositor. Also in: Pacific Rural Press 38:22. Short general account.

Duflot de Mofras, Eugene

1937. Travels on the Pacific Coast. 2 vols. Transl. and edited by Marguerite E. Wilbur. The Fine Art Press, Santa Ana. First published Paris, 1844. (Fig, 1:113.) European fruits "of all kinds" but figs seldom found.

Dunn, H. D.

1867. California, her agricultural resources. U. S. Commr. Agr. Rept. 1866:581-610. (Figs, p. 594.) Fig trees scattered over state; crop about 50 tons dried.

Dwinelle, John

1863. The colonial history of San Francisco. 102 pp. Towne and Bacon, San Francisco. (Fig, p. 44.) Quotes from Duflot de Mofras, 1844.

## Eisen, Gustav

- 1885a. The Bulletin Smyrna fig. Pacific Rural Press 30:158. Had fully made up his mind to discard the Smyrna trees as worthless but modified his views as he found two different kinds in the nursery.
- 1885b. Fig culture. Pacific Rural Press 30:126, 138-39. Growth of tree, varieties, figs in Europe and Turkey, culture as a business, drying, packing.
- 1887a. The fig. California State Bd. Hort. Bien. Rept. 1885 and 1886:105-18. Also in: Pacific Rural Press 31:106-8. 1886; Citrograph (Redlands) 1(22). 1887; Gardener's Monthly and Hort. 28:334-5. 1886. Soil and climate, culture, crops, drying, caprification.
- 1887b. Pamphlet on fig culture. Adv. by Fancher Creek Nurseries. Fresno Weekly Republ. 11(3). Jan. 28. G. Eisen, Manager of Nurseries; pamphlet offered for 10¢.
- 1887c. White Adriatic fig, some practical points in its growth. Florida Agr. 9(Apr. 20):399. 1 figure. Also in: Fresno Weekly Republ. 11(37):1.
1888. The fig of commerce. Its culture and curing and descriptive catalogue of all its known varieties. Rural Californian 11:149-56, 177-81. Excellent complete article.
1897. The fig in California. Pacific Rural Press 53:341, 357, 373, 389, 405. Much same as previous accounts by Eisen.

## Fraser, J. P. M.

1885. History of Contra Costa County. 710 pp. W. A. Slocum and Co., San Francisco. (Fig, p. 55.) Grow well on farm of Pulpunes near San Francisco, 1846.

## Gazlay, David M.

1860. Fig. California Mercantile Jour. 1:216. California had 19,406 fig trees in 1859.

## Gray, J. C.

1900. The fig in Butte County. Amer. Pomol. Soc. Proc. 26: 242-44. Two largest fig orchards in California are in Butte Co.; one of 50 acres planted in 1889.

## Hall, Frederic

1871. The history of San Jose and surroundings. 537 pp. A. L. Bancroft and Co., San Francisco. (Figs, p. 42.) Trees at Santa Clara Mission, 1792.

Hinde, G. R.

1882. The fig. *Semi-tropic California* 5:222, 250, 251. Suggestions for drying black figs; suggests planting Smyrna figs.

Hittell, J. S.

1874. The resources of California. 443 pp. (6th ed.) A. Roman and Co., San Francisco. (Fig, p. 242.) 50,000 fig trees in California.
1882. The commerce and industries of the Pacific Coast of North America. (2d ed.) 819 pp. A. L. Bancroft and Co., San Francisco. (Fig, pp. 231, 238.) Black Turkey not so large or handsome as the Smyrna but palatable.

Hittell, T. H.

- 1885-1897. History of California. 4 vols. Vols. 1-2. Pacific Press Publ. Co., San Francisco, 1885. Vols. 3-4. N. J. Stone and Co., San Francisco, 1897. (Fig, 1:263.) Figs thrive in Lower California, at Vigge Biaundo, scene of Ugartes great labors.

Klee, W. G.

1891. Tropical and semi-tropical fruits of California, Arizona and New Mexico. U. S. Dept. Agr. Div. Pomol. Bul. 1:111-45. (The fig, pp. 137-42.) History, climate, adaptation, varieties, drying (after G. Eisen, 1885b).

La Perousse, Jean

1798. A voyage round the world in the years 1785, 1786, 1787, and 1788, published conformably to the decree of the Natl. Assembly and edited by M. L. A. Milet-Mureau. Transl. from the French. 3 vols. J. Johnson, London. (Fig, 1:313.) From France to Monterey 3 white figs, 2 Angelique, 2 violet.

LeLameter, J. W.

1889. Fig culture and market for the dried product. *California Fruit Grower* 5(4;Sept. 7.)

Lelong, B. M.

1890. The fig. *California State Bd. Hort. Ann. Rept.* 1889:115-36. Color pl. 3. Varieties, preparation as related by U. S. consuls in foreign countries, California experiments in curing, sulphuring, propagation, setting of the fruit.
- 1892a. California fig industry. *California State Agr. Soc. Trans.* 1891:130-82. Varieties, propagation, culture, drying, California methods, foreign varieties, caprification (translation of G. Gasparrini, 1845.)

- 1892b. Condition of fruit in California. California State Bd. Hort. Ann. Rept. 1891:65-83. (The fig, pp. 78-79.) From Smyrna fifty well-rooted, four-year-old trees distributed over the state.

McCoy, J. C.

1888. Figs in Southern California. Orange Tribune. Also in: Pacific Rural Press 35:111. Short promotion article.

Maslin, E. W.

1890. Fig culture and seedling Smyrna figs. California State Fruit Growers' Conv. Proc. 12. In: California State Bd. Hort. Rept. 1889:401-5. Also in: Pacific Rural Press 38:474, 1889; California Fruit Grower 5(14):6, 7. 1889. See also: Pacific Rural Press 40:411. 1890. Quality of Smyrna figs due to the fertile seeds; such seeds planted; notes on fig culture and varieties.

Maslin, E. W., J. A. Filcher, and B. N. Rowley

1897. Fig culture in California and how it can be made a great industry. 5 pp. California State Board of Trade, San Francisco. Also in: Pacific Rural Press 54:245. Importation of Smyrna fig trees, artificial pollination; full text of letter to U. S. Sec. Agr., requesting introduction of the Blastophaga.

Meade, Geo. W., and Co.

1885. Eleventh annual review of dried fruits of California for the year 1885. 16 pp. San Francisco. (Figs, pp. 2, 8.) Slow work introducing black figs in Eastern markets; dried figs from Riverside on sale.

Milco, G. N.

1884. Report of Commissioner Milco for the San Joaquin district. California State Bd. Hort. Bien. Rept. 1883-1884: 56-59, 82-89. See also: Pacific Rural Press 28:402. Directions for drying; account of the "White Pacific" fig.

1885. Figs and fig culture. Pacific Rural Press 30:211. History of White Adriatic fig.

Milco, G. N., et al.

1887. Discussion on fig growing. California State Bd. Hort. Bien. Rept. 1885-86:139-46. Also in: Pacific Rural Press 31:178. 1886. Varieties, drying, irrigating, frost injury, prices and markets, shipping ripe figs.

Nutting, W. R.

1889. California views in natural colors. 30 pp. California View Publ. Co., San Francisco. (Fig, p. 19.) View of orchard of E. R. Thurber, Vacaville; trees 26 years old.



Parker, H. E.

1889. Fig culture in California. California Fruit Growers' Conv. Rept. 10:108-13. Account of Smyrna fig trees imported into California.

Raymond, G. A.

1894. Curing the White Adriatic fig. California State Fruit Growers' Conv. Proc. 17. In: California State Bd. Hort. 4th Bien. Rept. 1893 and 1894:270-72. Details given.

Rixford, G. P.

1888. The Smyrna fig. California Fruit Grower 2(11):8-9. See also: California Fruit Grower, Dec. 1, 1890.

Robinson, Alfred

1846. Life in California. Transl. from the original Spanish ms. 226 pp. Wiley & Putnam, New York. (Fig, p. 52.) Figs and other fruit trees at San Gabriel Mission.

Roe, James H.

1952. Notes on the early history of Riverside, California. 64 pp. (Typed.) Public Library, Riverside. (Figs, p. 12.) In 1872 the assessor reported 400 fig trees growing.

Roeding, G. C.

1890. Smyrna figs. California Fruit Grower 7(15):229. Oct. 11.
1891. The Smyrna fig at Fresno. Pacific Rural Press 41:144.
1892. Smyrna figs. California State Fruit Growers' Conv. Proc. 15. In: California State Bd. Hort. Rept. 1891:436-43. Also in: Pacific Rural Press 42:470-71. 1891. Introduction of fig cuttings; grading and packing figs in Smyrna; caprification.

Rowley, B. N.

1889. Answer to an inquiry regarding the fig. California Fruit Grower 5(8):7.

1889. California figs. California Fruit Grower 5(15):3.

Rowley, B. N., and G. P. Rixford

1889. Report from the Fig Committee. Pacific Rural Press 38: 523. Also in: California Fruit Grower 5(17):4. Report to State Hort. Society on varieties, curing, preparing, packing; suggest changes and improvements in drying figs.

Schacht, Lemcke, and Steiner

1889. Annual review of raisin, prune, dried fruit products of California for the year 1889. 14 pp. San Francisco. (California figs, p. 10.) First carload white figs sent east from Fresno.

Schaeffle, E. H.

1889. The true Smyrna fig. Pacific Rural Press 38:338. Visited Maslin orchard at Loomis; believed White Adriatic the fig called Smyrna.

Sheldon, I. A. (pseud. for L. W. Cheney.)

1891. Profits of fruit culture in California. Bound in: Pamphlets on Calif. Agriculture, Wickson Collect., Univ. California Library. James Stewart of Downey \$600 net for figs of 72 trees of which 108 are planted to the acre.

Sherman, D.

1894. Fig culture and fig packing. California State Fruit Growers' Conv. Rept. 16. In: California State Bd. Hort. 4th Bien. Rept. 1893-1894:234-36. Short, general account.

Shinn, Charles H.

1889. Notes on fig growing in California. Amer. Agr. 48:485-86. 2 figures. Describes fig plantings at Mission San Jose and other places.
1891. Figs at the California stations. California Agr. Exp. Sta. Rept. 1890:269, 280, 289, 299. Behavior of fig varieties.
1893. The fig in California. California Agr. Exp. Sta. Rept. 1891-1892:147-57. Also in: California Agr. Exp. Sta. Bul. 96:3-6. 1892; California State Bd. Hort. Rept. 1892:350-54. Results of variety trials.

Simpson, George

1847. An overland journey around the world during the years 1841-1842. 273 pp. Lee and Blanchard, Philadelphia. (Figs, pp. 216, 220.) Figs seen at San Gabriel, Santa Barbara, and Ventura in 1841.

Stewart, James

1886. Fig growing in Los Angeles County. Pacific Rural Press 32:339. Paper read before Los Angeles Pomological Society of experiences with varieties, culture, and drying.

Talbot, C.

1888. Fig growing in the San Joaquin Valley. Pacific Rural Press 35:190. Address before Tulare Grange.

Tisdale, W. M.

1895. New field in California fruit growing. Garden and Forest 8:258-59. Fig growing at Redlands.

Truman, Ben C.

1874. Semi-tropical California. 204 pp. A. L. Bancroft and Co., San Francisco. (Fig, pp. 92-93.) Short account.

Vancouver, George

1798. A voyage of discovery to the North Pacific Ocean. 2 vols. C. G. and J. Robinson, London. (Fig, 2:114.) Figs seen at Santa Clara and Ventura missions.

Van Lennep, D.

1891. The fig of commerce. Pacific Rural Press 41:553.

West, W. B.

1861. Suggestions concerning fruit culture. San Joaquin Valley Agr. Soc. Trans., and 2d Ann. Rept.:168-71. (Figs, p. 170.) Brief notes; seven varieties mentioned.
1882. Fig growing in California. Pacific Rural Press 24:82, 83. Fig as a table fruit, varieties, the Smyrna fig in Asia Minor.
1887. Fig culture. Fresno Weekly Republ. 11(23):1. Bulletin Smyrna fig distributed to subscribers; localities; varieties.
1888. Fig culture in California. California Fruit Grower 1(13): 4. Smyrna fig in Asia Minor; so-called White Adriatic not a new variety.

Wickson, E. J.

- 1888a. California Mission fruits. Overland Monthly 11(May):501-5. Good historical account.
- 1888b. The Vacaville early fruit district. 149 pp. California Illustrated, No. 1. View Publ. Co., San Francisco. (Fig, pp. 55, 66, 80, 89. Illus.) Pictorial account of early fig plantings.

Williams, W. M.

1887. Advertisement of White Adriatic fig. Fresno Weekly Republ. 11(3; Jan. 28). Only one that should be planted.

Williamson, Robert

1883. The fig. California State Fruit Growers' Conv. Rept. 3. In: California State Bd. Hort. Ann. Rept. 1883:94-97. Profits in fig culture.
1887. The fig, its cultivation and preparation for market in California. California State Fruit Growers' Conv. Rept. 6. In: California State Bd. Hort. Bien. Rept. 1885-1886: 294-300. Drying, varieties, culture.

## CALIFORNIA 1900 TO PRESENT

Aiken, C. S.

1890. Fig growing. Pacific Rural Press 40:332. Discussion at meeting of State Hort. Society.

Anonymous

1906. The Calimyrna fig industry. Rural Californian 29(Oct.): 455. Brief.
1911. Reedley center of fig industry. The Ledger, Reedley. 6(43):1. Popular account of orchard of E. Newby and Sons, Reedley.
1912. Factors affecting fig production. Pacific Rural Press 83: 433, 453. Reasons for opposition to planting of Smyrna figs; variety notes; caprifigs protected from frost.
1914. Smyrna fig thrift in California. Orchard and Farm 26(May): 2. Account of large fig tree at Parlier; erroneously called Smyrna type.
1915. Deciduous fruits in Tulare County. 16 pp. Illus. Tulare Co. Board of Trade, Visalia. (Fig, pp. 14-15.) Brief popular account.
1917. Coachella Valley fig notes. Pacific Rural Press 93:199. From 86 trees, Fred Johnson shipped 1,045 boxes of Black San Pedro and Mission figs.
- 1919a. Facts about fig production in Fresno County. The Bulletin, Fresno Co. Chamber of Com. 2(5):1-4. Illus. Varieties, acreage, cost of production.
- 1919b. Fig growing in Merced County. Pacific Rural Press 97:266. Statistics on number of trees and production.
- 1919c. Figs and pears 125 years old. Pacific Rural Press 97:565. Fig tree on Curtner place, near Mission San Jose, 17 feet in trunk circumference.
- 1919d. Fresno County is the fig center of the world. The Bulletin, Fresno Co. Chamber of Com. 2(4):1-4. Illus. Popular account.
1920. Fig Bulletin No. 1. 4 pp. 1 figure. Madera Co. Chamber of Com., Madera. Brief account; cost of production.

- 1921a. Figs. Western Canner and Packer 12(12):28. Prices; frost damage; male trees to be regulated; advertising campaign; fig planting near Stockton.
- 1921b. World's largest fig tree. Amer. Forestry 27:594. 1 illus. Six trees grafted together on Roy Dewhirst's place near Sultana; erroneously called "world's largest".
1922. Fig growing in California. Santa Fe Mag. 16:19-22. Illus. April. Popular account.
- 1922-1923. M. Forkner, the fig king. Revue Hort. 94-95:354. J. C. Forkner, Fresno, planted 12,000 acres of figs; 600,000 fig trees.
1923. Fig production in California. Packing House News 2(Oct.): 15.
1924. Fig culture in Los Angeles County. Los Angeles Co. Farm Bur. Mo. 7(May):25. 1 figure. Popular account.
- 1925a. Conditions of olive, avocado, and fig production and distribution in California. Mercantile Trust Co. Rev. of Pacific (June):125-29. (Fig, pp. 127-28.) Statistics, climatic requirements, costs of production.
- 1925b. Figs in Imperial Valley. Los Angeles Times Farm and Orchard Mag. (Feb. 15.) p. 10. Account of the one-acre-orchard of Calimyrna figs of Chris Westgard, Brawley.
1926. Figs with "handles." Los Angeles Times Farm and Tractor Mag. (Oct. 3), p. 4. Figs with elongated stalks.
- 1927a. Fig industry, Fresno, California. Southern Pacific Lines, Menu, Dining Car Service. Illus. April. Brief.
- 1927b. Fig quality to be improved. California Fruit News 76 (July 2):4. Tolerance on imported figs reduced from 20 to 10 per cent infestation.
- 1928a. Fig outlook brightens. California Cult. 70:160. Plan to control endosepsis.
- 1928b. Fig trees of 1878. California Cult. 71:55. Large trees in Temperance Colony, Clovis.
- 1928c. Figs in hedge rows are grown at Bell. Los Angeles Times Farm and Orchard Mag. (Aug. 26), p. 5. Short account and photos of Brown Turkey trees in orchard of Hugh Bell.
1930. She sells figs. Los Angeles Times Farm and Orchard Mag. (Nov. 9), p. 13. Mission and Adriatic figs sold by Mrs. J. D. Honeyman, Arcadia.



- 1934a. Our figs are not "burned up." California Fruit News 89 (June 30):7. Refutation of statement by New York Jour. Commerce.
- 1934b. San Joaquin fig pioneer (S. N. Mitrovich) to exhibit at Chicago. California Fruit News 89 (Mar. 31):5. See also: June 30, p. 9. High honors for fig exhibit at Chicago in 1893.
- 1936a. Dried figs last year. Market News Service, U. S. Dept. Agr. Also in: California Fruit News 94 (Oct. 31):12. Statistics.
- 1936b. Fresno County leads state in fig production. Fresno Bee (Nov. 11), Section B, p. 2. Short illustrated account.
1937. Dates and figs, they tell a romantic story. Coop. Merchandiser 2(12):16-17. Illus. Dec. Popular account.
1938. Fig industry here asks tree removal subsidy. California Fruit News 97 (June 4):3. Federal government asked for subsidy to eliminate 288,000 marginal fig trees.
- 1939a. Fig production in California. California Fruit News 100 (July 1):10, 11. Statistics.
- 1939b. Riverside County listed for having substantial fig lands. Riverside Press, May 15. Popular, general account.
- 1940a. Fig cuttings from Italy. California Cult. 87:312. Shipment of 11,000 cuttings to be planted in Santa Clara County.
- 1940b. Quality still important. California Cult. 87:478. (Editorial on dried figs.) Marked improvement in quality in five-year period.
- 1940c. World's largest fig tree falls. Fresno Bee, Sunday, Aug. 11. 1 figure. Parlier, California, tree. Erroneously called "world's largest."
1944. Dried figs to come from Turkey. California Fruit News 110 (Dec. 2):3, 6. 5,000 tons allocated for United States.
1946. Fig research laboratory planned. California Fruit News 114 (Aug. 31):5. Research Committee of California Fig Institute.
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1900. Report on the Substations. California Agr. Exp. Sta. Rept. for 1897-98:262-351. (Figs, pp. 272, 287, 297, 317.) Brief notes on varieties under test.

1902. Experiments with deciduous fruits at and near the Southern coast range substation, Paso Robles, from 1889 to 1902. California Agr. Exp. Sta. Bul. 141:3-48. (Figs, pp. 10, 41, 44, 46.) Notes on varieties.

1914. In: L. H. Bailey. Standard cyclopedia of horticulture. 6 vols. The Macmillan Co., New York. (The fig in California, 3:1235-38. Figures 1505, 1506.) History, varieties, caprification, culture, drying.

Smith, Clifton F.

1952. A flora of Santa Barbara. 100 pp. Santa Barbara Bot. Garden. (Fig, p. 28.) Occasional in dry or moist places as an escape.

Spehr, Lou

1940. Garden, goats, puppies, all have part in the family plan. Pasadena Star-News, (July 15), p. 17. Fig tree in yard of Mrs. Arizona Garrison.

Sunderland, A. E.

1921. California outstripping the Levant in cultivation of figs. San Francisco Business (Oct. 28), pp. 8-10. Illus. Popular article.

Sunset

1954. Sunset western garden book. 384 pp. Lane Publ. Co., Menlo Park. (Fig, p. 345.) Varieties, climate.

Swingle, W. T.

- 1909a. Announcement to Smyrna fig growers. Pacific Rural Press 77:65. Distribution of seedling fig trees and caprifigs from Maslin orchard.

- 1909b. The Maslin Seedling fig orchard at Loomis, Calif., and its bearing on the Smyrna fig industry of the country. *California Fruit Growers' Conv. Proc.* 35:92-100. Also in: *Pacific Rural Press* 76:226. 1908; *Cong. Rec.* 60:3608-9. 1921. Good and detailed historical account.
- Swingle, W. T., and G. P. Rixford  
1910. The latest developments in fig culture. *California Fruit Growers' Conv. Proc.* 36:80-86. Also in: *California Fruit Grower* 40(1120):4-5. 1909. History of the Milco caprifig, planting caprifig trees, splitting of figs, curing.
- Taylor, Frank J.  
1929. Land of homes. Vol. 8 in: *California*. Ed. by John R. McCarthy. Powell Publ. Co., Los Angeles. (Fig, p. 251.) Merced County center of the industry.
- Tesche, W. C.  
1928. California fruits lost ground in 1927. *Pacific Rural Press* 115:39, 47. Figs a painful entry to make in the record; gross return just one third that of 1926.
- Toomey, W. F.  
1917. The fig industry from the standpoint of a packer. *California Fig Inst. Proc.* 1:90-94. Popular account.
- Tufts, W. P., et al.  
1946. The rich pattern of California crops. In: *California agriculture*, ed. by C. B. Hutchison. Univ. of California Press, Berkeley. (The fig, pp. 225-29.) History, varieties, research work.
- Uzzell, T. H.  
1920. The romance of the fig: how California broke the wily Turk's monopoly. *Country Gentleman* (June 26), pp. 12, 33. Illus. Introduction of Smyrna fig and of caprification.
- Van Deman, H. E.  
1901. Smyrna fig growing in California. *Rural New Yorker* 60:403.
- Videla, Ricardo  
1920. La industria fruticola en California. 182 pp. Wiebeck, Turtl & Co., Buenos Aires. (Higueras, pp. 35-37; higos, pp. 64-65, 94-97.)
- Warner, R. M.  
1950. Quality in Calimyrnas, 1949 observations. *California Fig Inst. Ann. Res. Conf. Proc.* 4:14-15.  
1954. Progress in fig research. *California Fig Inst. Ann. Res. Conf. Proc.* 8:3-4. Thirteen projects on which progress has been made.

Webb, Edith B.

1952. Indian life at the old missions. 326 pp. W. F. Lewis, Los Angeles. (Figs, pp. 85, 86, 87, 90.) Within grounds of University of Santa Clara is an old fig tree believed to have been planted in mission days; quotes from Guad. Vallejo "Ranch and mission days," p. 188.

Wheeler, D. P.

1931. The future of the fig. California Cult. 76:82. Present status and future trends; failures and remedies.
1941. The Mission fig. California Cult. 88:176. Short general account.

Whitney, D. J.

1911. Some economies of fig production. Pacific Rural Press 82:301, 310. 1,000 acres of figs at Butte City; production and imports, cost of production, harvesting, packing, prices.
1914. The ideas of a fig grower. (Henry Markarian.) Pacific Rural Press 87:38. Smyrna fig best; planting and care, caprification, harvesting, prices, costs.
1919. Expert tells facts about figs. Exeter Sun, Jan. 30. Letter from G. P. Rixford; prefers Pastiliere to Mission.
1930. The future of the fig industry. California Cult. 74:38, 39. Fig spoilage, outlook for varieties, shipping and canning fresh figs.
1931. Fig lessons for the season. California Cult. 77:236. Fig spoilage, varieties, irrigation.
1934. Dried fig situation looks discouraging. California Cult. 81:132, 133. Review of industry status, varieties, spoilage.
1937. The future of the fig industry. California Cult. 84:8, 9. Report at recent Fig Institute; spoilage, infestation, culture.
- 1940a. Fig district makes comeback. California Cult. 87:482. Figarden District, Fresno; variety situation, spacing of trees, culture, caprification.
- 1940b. Fruit trends and tendencies. California Cult. 87:99, 111. (Figs, p. 99.) Hardly any new planting being done; low prices for Mission; Adriatic seems to have edge on Calimyrna.

- 1940c. Kadotas recommended for drying. California Cult. 87:541.  
Grower favored Kadota with heavy pruning.

Wickson, E. J.

1926. California fruits and how to grow them. (10th ed. revised.)  
509 pp. Pacific Rural Press, San Francisco. (The fig,  
Ch. 31, pp. 331-43.) History, sites, propagation, culture,  
caprification, varieties.

Wilson, Albert

1938. Distinctive trees, shrubs, and vines in the gardens of  
the San Francisco Peninsula. 182 pp. Stanford Univ. Press,  
Palo Alto. (Fig, p. 68.) Large tree on G. E. Bennett  
Estate, Woodside.

Wrightson, J. M.

1919. Future of fig industry depends on quality of fruit grown.  
Fig and Olive Jour. 3(Jan.):2. Choice of varieties,  
industry prospects.

Yokum, F. W.

1919. Essentials of success in growing the Calimyrna fig. Fig  
and Olive Jour. 3(Jan.):3. Mostly concerns caprification.  
  
1920. Value of location in establishing the fig orchard. Fig  
and Olive Jour. 4(Jan.):7-8. Sites, climate, quality.

Yokum, Mrs. F. W.

1919. Woman's sphere in horticulture with a few sidelights of  
fig culture. Fig and Olive Jour. 4(Sept.):9-10.

Young, Arthur A., et al.

1941. Utilization of the waters of Beaumont plains and San  
Jacinto Basin, California. 336 pp. U. S. Dept. Agr.,  
Soil Cons. Service and Div. Irrigation. (Mimeo.) (Figs,  
p. 72.) Acreage of 5,680 in 1930 reduced to 3 acres in  
1938.

Z., E. S.

1929. Modernizing the fig and date crops. Com. Monthly 10(Feb.):  
11-14.

Zimmerman, H. E.

1918. The Smyrna fig. Amer. Forestry 24:231. Introduction of  
Smyrna fig and caprifig.

## CALIFORNIA FIG INSTITUTES - 1917 TO 1930

## Anonymous

- 1917a. Proceedings of the Fig Institute held in Fresno, California, January 12, 13. 111 pp. Herald Pr. Co., Fresno.
- 1917b. The real live Fig Institute. Pacific Rural Press 93:70-71. Held at Fresno, Jan. 12, 13; total attendance 1100; subjects discussed.
1922. Proceedings of the Sixth Annual Institute of fig growers of the State of California held at Fresno, January 13 and 14, 1922. 57 pp. Republican Pr., Fresno.
1926. California Tenth Annual Fig Institute Proceedings. 31 pp. Nov. 12, 13, Fresno. (Mimeo.)
1929. Proceedings of the Thirteenth Annual Institute of fig growers of the State of California, October 25 and 26, 1929. 47 pp. Merced, California.
1930. Fig growers discussing industry. California Fruit News 82(Nov. 8):5. See also: (Nov. 15):4.

## Condit, Ira J.

1921. Quality to be standard of Fig Institute in Fresno. Coop. Californian. Dec. 3.

## Hodgson, R. W.

1917. The recent Fig Institute. University of California Jour. Agr. 4(6):193. 1 illus.

## Johnstone, H. W.

1927. The eleventh annual Fig Institute. California Cult. 69:668. Fresno meeting; review of two-day program.

## Whitney, D. J.

1930. Echoes of the Fig Institute. California Cult. 75:470. 14th Annual Institute, Exeter, Nov. 8.



## CALIFORNIA ASSOCIATION OF GROWERS

## Anonymous

1917. Fig growers seek organization. The Joaquin 1(4):41. Resolutions adopted by the committee on organization.
- 1918a. Fig growers of state organize to hold conquered markets. Fresno Republican (Jan. 5), p. 20. California Fig Growers Association organized; purposes, dues, by-laws.
- 1918b. Constitution and By-laws of the California Fig Growers Association. 8 pp. Organized Jan. 5. Articles 1-19. Fresno, California.
- 1918c. California fig growers organize at convention. California Fruit News 57(Jan. 12):11. Second annual convention; all members assessed 10 cents an acre; annual dues \$1.00 per ton of dried fruit produced.
1920. Merging of Fig Association with Peach Growers has approval. California Fruit News 61(Apr. 3):5. Account of merger and proposed management.
1922. Fig growers face brilliant future. Assoc. Grower 3(1): 5, 47. 2 illus. Account of first year's experience; permanent plans.
1924. California Peach and Fig Growers elect officers. Assoc. Grower 6(6):8. Report of affairs of the Association; summary of report of General Manager Reeder.
- 1928a. Peach and Fig Association a storm center. California Fruit News 78(Aug. 11):3. See also Aug. 25, p. 3. Internal strife, fig versus peach growers; excessive overhead; Sun Maid to handle crops.
- 1928b. Peach and Fig Association selects new management. California Fruit News 77(June 16):3. Association handled only 20 per cent of state tonnage; C. F. Cook, San Francisco, elected President.
1930. Peach and Fig Association offer growers new contract. California Fruit News 82(Aug. 2):5. See also Aug. 9, p. 3. Grower contract announced; Federal Farm Board financing; M. J. Newhouse becomes manager of Association.
- 1932a. Peach and Fig Association may be reorganized. California Fruit News 85(Feb. 27):7. See also Mar. 19, p. 13; Mar. 26, p. 9. Plan of reorganization submitted to growers.

- 1932b. Peach and Fig Association reorganizing. California Fruit News 85(June 4):5. Changes in organization specified.
- 1932c. Peach and Fig Growers election indicates important changes. California Fruit News 86(July 2):3. Vote by mail only 21 per cent of membership.
- 1932d. Peach and Fig Association selects new head. California Fruit News 86(July 16):7. See also Aug. 6, p. 5; Aug. 13, p. 7; Aug. 27, p. 7. C. A. Hawkins selected President of Board; M. J. Newhouse reappointed General Manager; merger with Prune and Apricot Growers Association.
1933. Peach and Fig Association will liquidate. California Fruit News 87(Jan. 28):7. See also Feb. 11, p. 11; Feb. 25, p. 7. Dissolution of Association approved by directors.
1934. Prune Association acquires four Peach and Fig plants. California Fruit News 89(Apr. 21):14. Plants at Fresno, Dinuba, Reedley, and Kingsburg.
- 1935a. Fig Institute formed. California Fruit News 91(Feb. 9):3. Brief notice; D. K. Grady selected as chairman.
- 1935b. Fig Institute considers quality problems. California Fruit News 92(2476):3.
- 1936a. Growers only for Fig Institute. California Fruit News 93(Jan. 4):5. \$2,000 of Institute funds voted to Univ. of California for study of smut and mold.
- 1936b. Fig Institute is reorganized. West. Canner and Packer 27(9):6. See also: (10):8.
- 1936c. Fig Institute reorganized for permanence. California Fruit News 93(Mar. 7):3. Fresno meeting started out to be a row but wound up in harmony; new by-laws and organization adopted.
- 1936d. Prune Association abandons fig marketing. California Fruit News 93(Mar. 21):5. Prune Association announces: "Association withdraws from fig marketing; let the favored few and the open-contract sellers fight it out." Small tonnage handled by Association.
1937. Fig Institute meets. California Fruit News 95(Jan. 2):9. Report on fig markets and prices; A. J. Brown succeeded D. K. Grady as chairman.
1941. Fig Institute holds annual meeting at Fresno. California Fruit News 103(Jan. 25):4. Summary of market situation and report of Director H. H. Hyde.

1942. Annual Fig Institute meeting. California Fruit News 105 (Mar. 7):4. Summary of report by Director H. H. Hyde, and address by Harry Wellman.
1943. Fig Institute holds annual meeting. California Fruit News 107(2847):5. See also: California Cult. 90:66. Purpose of Institute to improve quality of dried figs and to divert substandard figs from the general food market.
1945. Final dissolution order for Peach and Fig Association. California Fruit News 112(Nov. 10):4. Association organized in 1916; became California Peach and Fig Growers in 1925; order approved for final dissolution.
1947. California Fig Institute meets. California Fruit News 115(Feb. 8):4. See also: Feb. 15, p. 3. 12th annual meeting of Institute held at Fresno; research program and fig merchandising discussed; report of Manager H. H. Hyde; officers reelected.
1950. Fig college. California Farmer 193:323. Report of Fourth Ann. Research Conference of the Fig Institute.

## Condit, Ira J.

1919. Fig Grower's Association. Fresno Republican, Jan. 4. A short account of the Association, its first organization, officers, and purposes.

## Hitchcock, Roy

1953. A report on the Seventh Fig Meeting. California Farmer 198:376.

## Kieffer, D. L.

1928. So that peach and fig growers may know. Pacific Rural Press 115:757. Summary of affairs of the Association and handling of peach and fig crops.
1929. The Peach and Fig dissatisfaction. Pacific Rural Press 117:320. Meeting of San Francisco unit on March 5; comparison of returns on figs delivered to the Association and to packer.

## Miller, Roy E.

1918. Fig growers organize for cooperation. Pacific Rural Press 95:38. Officers of the Association, its aims; summary of program of recent meeting.
1921. Peach and Fig Growers combine. Univ. California Jour. Agr. 7(2):8, 28. 1 illus. Plans announced in May, 1920; 80 to 90 per cent of growers signed by July 31; stock subscription soon reached half million mark.

Newby, Ellsberry

1918. The purposes of the California Fig Growers' Association. Fig and Olive Jour. 3(3):13-15. Purposes follow:
1. Encourage production of better quality fruit.
  2. Secure better prices for grower and cheaper prices for consumer.
  3. Broaden and strengthen fig market.
  4. Establish standard packs.
  5. To obtain for grower a uniform price for uniform quality.
1919. Future greatness of fig business depends on cooperative action by growers. Fig and Olive Jour. 3(8):4-5. Reasons why growers should join Association and support its program.
1920. Proposed plan to make Fig Association practical and a controlling factor in the industry. Fig and Olive Jour. 4(8):6-7. Necessity for organization and outline of plans proposed.

Newhouse, M. J.

1931. The peach and fig industries. California Dept. Agr. Mo. Bul. 20:82-84. The Peach and Fig Growers Association under the refinancing by Federal Farm Board.

Fickett, J. E.

1931. The Peach and Fig Association come-back. Pacific Rural Press 121:470. Reorganization and refinancing one of the bright stars in the crown of the Federal Farm Board.

Whitney, D. J.

- 1929a. Status of the Peach and Fig Growers. California Cult. 73:357. A good account of the Association, history, reorganization, and method of operation.
- 1929b. Whipsawing the fig grower. California Cult. 73:432. Contract to growers for sale of dried figs, a horrible example of marketing.
1940. Fig Institute considers industry. California Cult. 87(5):130-31.

Wilson, F. H.

1918. Cooperation, organization and standardization. California Cult. 50:35, 38. 2 illus. History of California Peach Growers Association; Henry Markarian elected President of new Fig Growers Association.

## CLIMATE

## Anonymous

1835. Protection of figs from frost. Farmer and Gardener (Baltimore) 2:66. Suggests methods used in Germany of laying trees down, covering with straw.
1921. Figs damaged quite heavily by severe frosts. Stockton (California) Record, April 16.

## Baade, H. J.

1930. Heaters save fig crop. California Cult. 74:405. Protect trees from spring frost injury at Sonoma.

## Baltadori, A.

1952. Gli equivalenti pluviometrici del fico. Ann. Fac. Agrar. Perugia 8:141-49. Summary in English. Abstracted in: Hort. Abs. 24:325. Drought conditions for fig considered to exist in late winter to spring in Apulia.

## Baltet, Charles

1882. De l'action du froid sur les végétaux pendant l'hiver 1879-80. 340 pp. Impr. et Libr. de J. Tremblay, Paris. (Figuier, pp. 219-20.) Short, general.

## Blair, R. E.

1916. The work of the Yuma Reclamation Project Experiment Farm in 1915. U. S. Bur. Plant Indus. Western Irrig. Agr. Cir. 12:1-27. (Fig, p. 17.) Trees survived uninjured a minimum temperature of 22.5° F whether watered once or twice during the winter or left dry for three months before frosts occurred.

## Bush, Raymond

1946. Frost and the fruit grower. 119 pp. Cassell and Co., London. (Fig, p. 113.) Many a fig tree in England has never given a decent crop until it got winter protection in the shape of a thatched hurdle.

## Chandler, W. H., et al.

1937. Chilling requirements for opening of buds on deciduous orchard trees. California Agr. Exp. Sta. Bul. 611:1-63. Illus. (Fig, pp. 25-26.) Probably the tree has at least a slight rest period even in mild climates; chilling requirements slight.

## Clark, W. H.

1905. Protecting fig trees out of doors from injury by frost. Gard. Chron. (3d ser.) 38:428. See also pp. 391, 457.



Cocke, John H.

1846. The fig. *Southern Planter* 6:263. Describes method of bending trees over and covering with soil for winter protection.

Condit, Ira J.

1920. Protect trees from frost. *Assoc. Grower* 1(9):39. Mission and Adriatic trees more tender than Calimyrna; suggests wrapping young trees with cornstalks.
1921. Frost injury to young fig trees. *California Cult.* 56:547. Also in: *Coop. Calif.*, April 16. Extent of damage to young trees and treatment of frozen trees.
- 1922a. Frost and frost prevention of fig trees. *Fresno Republ.*, Oct. 15. Also in: *California Cult.* 59:469, 475, 502, 529. Nature of frost injury to foliage and wood; sour sap and sun scald, occurrence of frost, factors influencing hardiness, methods of protecting young trees, care of frozen trees.
- 1922b. Picturing our climate. *Assoc. Grower* 4(5):7. 1 illus. Charts show temperature records for four summer months of 1922 at Visalia, Fresno, Merced, Stockton; effects of temperature and humidity on fig splitting and quality.
1950. Fig characters as affected by climate. *Amer. Soc. Hort. Sci. Proc.* 55:114-18. Size and shape of fruit, color of skin and pulp, quality, parthenocarp.

Dode, L. A.

1930. Enquete sur les effets des froids de l'hiver 1928-1929. *Soc. Dendrol. de France Bul.* 1930:10-23, 39-46, 79-80. (*Ficus carica*, p. 45.) Fig trees injured but sprouted again at the base.

Dragavtsev, A. P.

1937. Acclimatation du figuier aux régions septentrionales. *Soviet Subtropics* 5:40-46. Abstracted in: *Rev. Bot. Appl.* 17:684. In frosty climates, recommended to train branches into a bush form and prune short each autumn.

Fry, B. O.

1948. Cold injury to fig varieties. *In:* *Georgia Agr. Exp. Sta. Ann. Rept.* 60:91. Hunt and Celeste more hardy than other varieties.

Hodgson, R. W.

1934. Resistance to low winter temperatures of subtropical fruit plants. *Amer. Soc. Hort. Sci. Proc.* 30:349-54. (Fig, p. 352.) Variety and tree responses to low temperatures from 15° down to 6° F; Mission fig trees suffered most.

Knight, Thomas A.

1820. Upon the effects of very high temperatures on some species of plants. Royal Hort. Soc. Trans. 3:459-65. (Fig, p. 461.) Abstracted by Naudin in: Revue Hort. 35:353-54. Trees in pots grew luxuriantly; ripened two crops at 70° to 110° F.

Letteer, C. R.

1918. The work of the San Antonio Experiment Farm in 1917. U. S. Bur. Plant Indus. Western Irrig. Agr. Cir. 21:1-27. (Fig, p. 20.) Trees killed to ground by minimum temperature of 17° F on March 5.

Libby, H. T.

1911. Damage the past winter and present outlook. Texas Dept. Agr. Bul. 22:200-1. Magnolia fig trees frozen to ground but making fine growth and a fairly good late crop expected.

Magness, J. R., and H. P. Traub

1941. Climatic adaptation of fruit and nut crops. In: U. S. Dept. Agr. Yearbook 1941:400-20. (Figs, p. 406.) Good compiled account of effects of climate on trees, quality of fruit, susceptibility to diseases.

Martins, Ch.

1855. Observations meteorologiques-faites à Montpellier, dans le courant de Janvier 1855. Revue Hort. 26:288-300. (Ficus carica, p. 296.)

Mason, S. C.

1911. Drought resistance of the olive in the southwestern United States. U. S. Bur. Plant Indus. Bul. 192:1-44. Illus. (Fig, pp. 13, 18, 26.) Contrast between the green of the olives on either side and the figs, which are dead save a few struggling sprouts, illustrates in a most marked way the comparative drought resistance of the two.

Post, G. E.

1880. Notes on the behavior of fig trees after an unusually severe winter in Syria. Torrey Bot. Club Bul. 7:66. Many fig trees killed or growth checked by ice and snow in Beirut when fruit buds were expanding; this explains the curse on barren fig tree which had leaves but no fruit.

Rebour, H., and A. Hauville

1951. Etude du climat algérien en vue de déterminer les zones les plus favorables au séchage des fruits. Alger. Ann. Inst. Agr. 6(2):1-42. Abstracted in: Hort. Abs. 22:302.

- Saul, M.  
1876. Do figs require winter protection? Gard. Chron. (n.s.) 6:592.
- Schneider, Numa  
1902. Soins à donner aux figuiers pendant l'hiver. Revue Hort. 74:572-73. Short, general.
- Schroeder, C. A.  
1950. The effects of climate on fruit form. Fruit Varieties and Hort. Digest 5(1):13-15. Illus. (Fig, p. 14. 3 illus.)  
Marked differences between figs grown at Riverside and at Los Angeles.
- Silver, J. W.  
1876. Do figs require protection during the winter? Gard. Chron. (n.s.) 6:531.
- Singh, H. B.  
1943. Effect of frost on some economic plants of Delhi. Indian Jour. Agr. Sci. 13:279-82. Fruit trees such as guavas and figs severely damaged.
- Stoddard, D. T.  
1855. On the meteorology of Oroomiah. (No. Persia.) Amer. Jour. Science and Arts (Silliman) (2d ser.) 20:254-58. (Fig, p. 254.) The fig with care, may also be cultivated, but is often destroyed by the cold of winter; minimum temperatures of 10 to 12° F.
- Stuckey, H. P.  
1947. Report of the Director. Georgia Agr. Exp. Sta. Ann. Rept. 59:1-144. (Fig, pp. 111-12.) Hunt and Celeste apparently much less subject to cold injury than Brown Turkey and Green Ischia.
- Taylor, Wm.  
1870. Covering up fig trees. Gard. Chron. (n.s.) 30:1605. See also: p. 1671.
- Tumanov, I. I.  
1940. Physiological bases of cold resistance in crop plants. (In Russian.) 366 pp. Sel Khozgiz, Moscow-Leningrad.  
Abstracted in: Plant Br. Abs. 11:66-67.
- Verlot  
1853. Des effets de la gelée pendant l'hiver de 1851 à 1852. Jardin botanique de Grenoble. Revue Hort. 24:171-74.  
All fig varieties suffered somewhat but did not succumb.

Viatkin, V.

1936. Reactions of the fig tree to low temperatures. Sovetsk. Subtrop. 1936(1):43-49. Illus. (Russian with English summary.) One-year-old dormant fig shoots are able to withstand brief period of low temperature, from  $-8^{\circ}$  to  $-10^{\circ}$  C. Resistance may be tested by artificially chilling cut twigs. Differences in soil moisture do not affect resistance of fig trees to low temperature.

Ward, H. W.

1876. Do figs require protection during the winter? Gard. Chron. (n.s.)6:496.

Warner, R. M.

1954. Freezing injury to figs in 1953. California Fig Inst. Ann. Res. Conf. Proc. 8:8-11. Hardiness of four commercial varieties; daily maximum and minimum temperatures at Merced and Clovis, from January 1 to the end of June 1953.

Young, F. A.

1940. Parts of lamina missing from fig leaves in Texas. Pl. Dis. Reporter 24:226. Probably result of frost.

#### PROPAGATION, TOPWORKING

Adriance, G. W., and F. R. Brison

1939. Propagation of horticultural plants. 314 pp. McGraw-Hill Book Co., New York. (Fig, pp. 250-52.) Cuttings, budding, grafting, seeds.

Agete, Fernando

1944. Propagación de frutales. Vivero e injerto. Rev. de Agr. Cuba 27(27):3-32. (Higuera, p. 17.)

Anonymous

1915. Works capris on white figs. Pacific Rural Press 90:293. G. B. Abbott, Corning, grafted Adriatic tree to caprifigs.
1917. Fig cuttings. Pacific Rural Press 93:259. Callusing cuttings.

Armstrong, George A.

1878. Notes by the way. So. California Hort. 1(11):351. Figs from sprouts drop their fruit.

Avery, George S., and E. B. Johnson

1947. Hormones and horticulture. 326 pp. McGraw-Hill Book Co., New York. (Ficus carica, pp. 61, 62.) Treatment of cuttings with lanolin and other materials.

Baltet, Charles

1903. La pépinière, fruitière, forestière, arbustive, vigneronne, et coloniale. 841 pp. Masson et Cie, Paris. (Figuier, pp. 474-76.) Propagation by seeds, cuttings, marcottage, grafting.

Beverley, George W.

1939. Re-working fig trees. N. S. Wales Agr. Gaz. 50:324-28. Figures 1-7. Grafting more successful than budding; bark graft found best.

Burgess, P. S.

1940. Arizona Agr. Exp. Sta. Ann. Rept. 51:1-112. (Fig stock, p. 77.) P.I. No. 52406 grown on nematode-infested soil and thus far no root knots have been found.
1942. Arizona Agr. Exp. Sta. Ann. Rept. 52:1-99. (Fig stock, P.I. No. 52406, p. 69.) Continues to thrive; some small knots found on roots but none serious.

Camp, A. F.

1930. Fig stock. Florida Agr. Exp. Sta. Rept. 1929-30:81. On the stock, P.I. No. 52406, Green Ischia forms most congenial union and makes most vigorous growth.

Carnevale, Juan A.

1946. Los injertos. 206 pp. S. A. Ed. Bell, Buenos Aires. (Higuera, pp. 140-41.) Propagation.

Clos, D.

1856. Quelques mots sur la greffe. Revue Hort. 27:342-43. (Fig of black fruit on white and vice versa.)

Condit, Ira J.

- 1920a. Bud selection in fig propagation. California Dept. Agr. Mo. Bul. 9:183-87. Figure 72. Also in: Fresno Republ. Feb. 8; Fig and Olive Jour. 5(1):8-9. Bud selection on account of fig strains, types or "superior" trees not justified; emphasizes importance of taking cuttings only from trees known to be true to the variety.
- 1920b. Fig cuttings and their proper preparation and treatment. Fig and Olive Jour. 4(8):11. Jan. Also in: Fresno Republ. Jan. 25. Directions for making and planting cuttings.
1921. Top working fig trees. California Cult. 56:646, 647. Also in: Fig and Olive Jour. 5(11):5. Methods of budding and grafting.
1922. Top working fig trees. Assoc. Grower 3(2):43. Bark grafting and budding.



1923. Top working fig trees. Assoc. Grower 5(3):14-15. Also in: Fresno Republ. March 4; California Cult. 60:305; Fresno Republ. March 21, 1926. Directions for budding, cleft and bark grafting.
- Cooper, W. C.  
1935. Hormones in relation to root formation on stem cuttings. Plant Physiol. 10:789-94. Figures 1-4. (Fig, p. 793.) Ten cuttings after 3.5 weeks in sand; treated showed 11.0 roots, untreated 6.1 roots.
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- Hilgard, E. W., and R. H. Loughridge  
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- Kimball, M. H.  
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1931. Trunkless fig trees save backaches. Los Angeles Times Farm and Orchard Mag., Aug. 2. Pruning and culture of Brown Turkey by C. A. Maltbie, Arcadia.
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Loughridge, R. H.

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Markarian, Henry

1917. Growing a fig garden. Fresno Republ., Agr. Dept., Dec. 30, p. 26. Short account of preparing the land, planting, pruning, varieties.

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Martin, R. Sanford

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1937. La taille des arbres fruitiers en Afrique du Nord. 300 pp. Office de l'Exp. et de la Vulg. Agricoles, Tunis. Abstracted in: Hort. Abs. 14:204.
1942. A. B. C. du tailleur d'arbres fruitiers. Algérie Inspect. Gén. Agr. Bul. 58:1-16. Abstracted in: Hort. Abs. 14:204.
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1930. Fig irrigation, California Cult. 74:363. Short paragraph: "one thorough wetting in winter, plus a good irrigation in early summer will carry figs through in fine style."

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Wood, Samuel

1893. *The tree pruner.* (3d ed.) 153 pp. C. Lockwood and Son, London. (Pruning and renovation of the fig, Chap. 7, pp. 49-52. Figures 42, 43.) Short details.

Yokum, F. W.

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#### HARVESTING AND DRYING

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Anonymous

1872. Drying and packing of figs. *Sydney Town and Country Jour.* Also in: *California Hort.* 2:219. Pick ripe figs, and place on trays eye end up; ripe figs often "open at the nose and lose all that is really valuable in their inside long before they are dry".
1889. Fig drying in Europe. *California Fruit Grower* 5(5):8. Fig drying in Malaga, Sicily, Syria, Palestine, Morocco.
1894. The curing of figs. *California Fruit Grower* 15(6):106. Figure 1. Methods used at Miramonte, Newcastle, and Oroville.
1895. Curing white figs. *Pacific Rural Press* 50:101.
1902. Drying and packing Calimyrna figs in Fresno. *Pacific Rural Press* 64:353. Crop on 60 acres of over 40 tons; should have had 100 tons on orchard of George Roeding.
1910. Drying the Smyrna fig. *Queensland Agr. Jour.* 25:239. Process used in Smyrna.

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1927. Dried figs must be clean. Pacific Rural Press 114:108. Regulations of Federal Pure Food authorities; suggestions for handling figs.
- 1930a. Drying and packing of figs. Cyprus Agr. Jour. 25:97, 98. Oleification and drying.
- 1930b. Fig dehydration. Pacific Rural Press 119:645. Experiments by University of California and Dried Fruit Association.
1931. Memorandum on the drying of figs. Cyprus Agr. Jour. 26:39. Brief suggestions by the Imperial Institute.
1933. Hints on drying figs. Pacific Rural Press 126:157.
1944. Vegetable and fruit dehydration, a manual for plant operators. U. S. Dept. Agr. Misc. Pub. 540:1-218. (Figs, p. 214.) Brief account.
1950. Helicopter knocks figs. California Farmer 193:200. See also: California Fruit News 122(3247):8.
1951. Needling the poor fig. California Farmer 195:204. Illustration of dried fig picker.
1953. Note sur le séchage des figues en milieu marocain. La Terre Maroc. 27:198-201. Abstracted in: Hort. Abs. 23: 579; 25:36. Varieties suitable for drying; only well caprifigged figs used; methods.

Balaguer y Primo, Francisco

- (?) Conservas alimenticias. (4th ed.) 248 pp. Luis Santos, Ed., Madrid. (Higos secos, pp. 181-88.) Drying in various parts of Spain, in oven and sun.

Beltran, M.

1949. Au sujet du séchage solaire des figues. Algérie Bul. Econ. et Jurid. 13:464-67. Analyses, drying operations, fumigation, sulfuring.

Brauer, O. L.

1921. Improving the quality of the dried White Adriatic fig. Fig and Olive Jour. 6(5):7. Prune trees properly; pick up figs every four days.

Brown, C. L.

1934. Sulphured figs unpopular. California Cult. 81:295. Public discrimination against sulfured figs.



Chace, E. M., W. A. Noel, and V. A. Pease

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Condit, Ira J.

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Condit, Ira J., and W. E. Scott

1921. Suggestions for drying figs. Assoc. Grower 2(8):32, 33. 1 figure. Also in: California Cult. 59:99, 119. 1922. Harvesting, drying on trays, sulfuring, sorting of three varieties of figs.

Croce, F. M.

1935. Cosecha de los higos. Rev. Mens. B. A. P. Buenos Aires 18(207):13-18. Abstracted in: Hort. Abs. 5(1):13. Oiling eye of fig to hasten maturity; figs for drying picked from tree.
1948. Desecacion y deshidratacion de higos. Rev. Mens. B. A. P. Buenos Aires 31:36-7, 39, 52-3. Manipulation, treatment during drying, and packing.

Cruess, W. V.

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Cruess, W. V., and A. W. Christie

1920. Dehydration of fruits. California Agr. Exp. Sta. Bul. 330:49-77. (Figs, pp. 72-3.) Preliminary experiments indicate possibilities of fig dehydration.

Eisen, Gustav

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Emanuele, Franco

1944. Industria delle conserve. Teoria e tecnica della conservazione degli alimenti. 602 pp. Ulrico Hoepli, Milano. (Fichi, p. 458.) Drying.

Fisher, C. D., E. M. Mrak, and J. D. Long

1942. Effect of time and temperature of sulfuring on absorption and retention of sulfur dioxide by fruits. Fruit Prod. Jour. 21:175-76, 199-200, 217, 219, 237-38. (Kadota figs, pp. 219, 237, 238.) Experiments in sulfuring.

Forsey, W. F.

1919. Proper handling of figs by grower will greatly improve industry. *Fig and Olive Jour.* 3(8):9. Pick up often and cure figs in stacked trays.

Knight, Miss A.

1941. Drying fruit for home use. *Victoria Dept. Agr. Jour.* 39: 21-24. (Figs, p. 24.) Steep figs in lye solution, sulfur and dry.

Lelong, B. M.

1893. Fig drying and curing. *California State Bd. Hort. Bul.* 63:3-7. See also: *California State Bd. Hort. Rept.* 1889: 128-31. Process used by George A. Raymond, Miramonte, Kern County.

Long, J. D., E. M. Mrak, and C. D. Fisher

1940. Investigations in the sulfuring of fruits for drying. *California Agr. Exp. Sta. Bul.* 636:2-56. Illus. (Figs, pp. 4, 11.) For Adriatic figs, use 3 pounds sulfur per ton of fresh fruit for four hours.

McDowell, C. H.

1944. Research serves agriculture. *Texas Agr. Exp. Sta. Ann. Rept.* 57:5-49. (Dehydration of Magnolia figs, p. 28.) Magnolia figs exposed to SO<sub>2</sub> for 1.5 hours and dehydrated at temperature not to exceed 150° were as good as sun-dried figs in flavor and texture but not as good in appearance.

Mauri, N.

1943. La déshydratation industrielle des fruits et légumes en Algérie. *Algérie Gouv. Gén. Service Arbor. Bul.* 94:1-35. (Figure, p. 24.) Summary of method.

Mrak, E. M.

1938. Dehydration of fruits. *Agr. Engineering* 19:349-52. 3 figures. (Fig, p. 350.) Short account.
1941. Some factors in the production of dried fruits. *Fruit Prod. Jour.* 20:267-76, 293. (Figs, pp. 267, 268.) Dried on wooden trays without pretreatment.
1948. Studies on dehydration of figs. *California Agr.* 2(6):4. Fumigation, tests, yeast counts; observations.
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Mrak, E. M., and J. D. Long

1941. Methods and equipment for the sun-drying of fruits. California Agr. Exp. Sta. Cir. 350:1-69. (Figs, pp. 3, 47-49, 64-66.) Figs picked up at frequent intervals, fumigated, dried on trays or in shallow boxes, sulfured if necessary, sorted and stored or delivered to packer. Table 9 gives grading sizes for dried figs; methods of processing and packing.

Mrak, E. M., and H. J. Phaff

1947. Recent advances in the production and handling of dehydrated fruits. Food Technology 1:147-60. (Dried figs mentioned, p. 158.)

Myers, Harriet H.

1857. Drying figs. Genesee Farmer (2d ser.) 18:197. Drying in Florida.

Nanot, J., and L. Tritschler

1893. Traité pratique du séchage des fruits et des légumes. 291 pp. Libr. Agr. de la Maison Rustique, Paris. (Dessication des figues, pp. 254-61.) Culture in France and Algeria, oiling the eye, preparation and drying in various countries.

Natarajan, C. P., C. N. Chari, and E. M. Mrak

1948. Yeast population in figs during drying. Fruit Prod. Jour. 27:242-43, 267. Decrease in yeast count during dehydration much more rapid than in sun drying; a good argument in favor of dehydration.

Nichols, P. F.

1933. Methods of sun-drying fruits. California Agr. Ext. Serv. Cir. 75:3-37. Illus. (Figs, pp. 28-29.) Drying and handling before delivery to packer.

Nichols, P. F., and H. M. Reed

1932. Experiments in harvesting and drying figs. Fruit Prod. Jour. 11:237-40. Effects of dehydration upon insect infestation and spoilage by microorganisms.

Parks, R. R.

1949. Mechanical harvesters. California Fig Inst. Ann. Res. Conf. Proc. 3:26-27. Machine to pick up figs satisfactory if ground is properly prepared.

Perry, R. L.

1949. Drying characteristics of Calimyrna figs. California Fig Inst. Ann. Res. Conf. Proc. 3:14-15. Experiments in tunnel drying.

Perry, R. L., et al.

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Renaud, Maurice

1949. Le séchage des figues. Algérie Bul. Econ. et Jurid. 13:467-71. Harvesting, sorting, sulfuring, drying.

Von Loesecke, Harry W.

1943. Drying and dehydration of foods. 302 pp. Reinhold Publ. Corp., New York. (Figs, see index.) Drying, grades, fumigation, packaging, vitamin content.

Yokum, Mrs. F. W.

1918. Proper curing of the fig essential to the success of the industry. Fig and Olive Jour. 3(2):9, 10. Suggests word "cured" for dried figs; fig ideal when it drops from the tree and objective is to keep it that way.

#### PROCESSING; PACKING DRIED FIGS

Anonymous

1908. Packing figs in Smyrna. London Globe. Abstracted in: Rural Californian 31:326.
1914. Calimyrna fig packing. Pacific Rural Press 88:326. Fred Hansen, Clovis; his start in business and packages used.
- 1928a. New black fig pack by Association. California Fruit News 78(2103):7. Mission fig pack, cellophane wrapped.
- 1928b. "Nujol treated" figs labeling held a trademark infringement. California Fruit News 78(2104):3. Misuse of word on packages ordered terminated.
1929. An artist in fruit. San Joaquin Power Mo. Mag. 11(12): 9-11. Illus. Fig packing plant of Mrs. Marion Hansen and daughter at Fresno.
1931. Former "fig king" invents new pack. Fresno Morning Repub., May 17, p. 3. S. N. Mitrovich and fig package.
1935. Foil solves fig problem. Food Indus. 7:83. Cresca Co., New York, adopted metal-foil bags enclosed in cartons to save loss of weight in drying out.

1937. And they stay "softenized". Food Indus. 9:659. California Fig Growers and Packers, Fresno, introduced Blue Ribbon "softenized" figs packed in foil-wrapped cartons. Calimyrna and Mission figs sold with 100% guarantee of permanence of softness.
- 1947a. Bonner Packing Company announces foil-wrapped dried peaches and figs. California Fruit News 116(3081):4. Aluminum foil wrapper.
- 1947b. New process perfected for preserving dried figs. Fruit Prod. Jour. 27:118. Tin can containers, hermetically sealed.
1950. Note pratiche per il miglioramento della lavorazione dei fichi secchi da esportazione. Notiziario Ortofrutticolo No. 22-24.
- Baker, E. E., and E. M. Mrak
1938. Yeast associated with the sugaring of dried prunes and figs. Jour. Bact. 36:317-18. Sugary substance consists of a mixture of yeast cells and sugar crystals.
- Barger, W. R.
1941. Effect of cold storage conditions on the keeping of dried fruit. Western Canner and Packer 33(6):47-50. During nine months' storage at 32° F with 85% relative humidity, figs near sides of package became crusted with sugar; fruit held in a drier 50° F room and in freezer was not sugared and did not become crusted during 13 months of test.
1942. Experiments with dried fruit in storage. 8 pp. Pacific States Cold Storage Warehousemen's Assoc., San Francisco. (Mimeo.) Storage for figs: 32° F with 50% relative humidity; lower temperature with slightly higher humidity not objectionable.
- Beekhuis, H. A.
1921. More about grading peaches and figs. Assoc. Grower 2(8): 7, 41. Plans outlined for grading figs.
- Christie, A. W., and Mrs. I. J. Condit
1926. Processing and packing dried figs. Western Canner and Packer 17(9):19-21. Experiments using boiling water or brine, pectin solution, steam, mineral oil, olive oil; cartons, and vacuum pack.
- Condit, Ira J.
- 1920a. Fig packing at the J. C. Forkner Fig Gardens. Fig and Olive Jour. 4(8):4. Plant of Mrs. Fred Hansen in partnership with J. C. Forkner.



- 1920b. Peach Growers start packing 1920 fig crop. Fig and Olive Jour. 5(7):12. Figs received at packing houses Nov. 4 to Dec. 1; new products, fig bread and pie filler.

Forrest, Thomas W.

1928. Sugaring of dried fruit, figs and prunes. Chem. Abs. 22: 3938. To Sunland Sales Coop. Assoc., (Fresno, California) U. S. Patent No. 1,683,068. Sept. 4. Sugared figs reconditioned by placing the unopened packages in receptacle and heating until sugar coating is dissolved and reabsorbed.

Fotheringham, N. S.

1933. Experiments on the steaming of figs. So. Australia Dept. Agr. Bul. 284:1-3. Steaming from 8 to 20 minutes.

Grady, D. K.

1929. Grading dried figs. California Ann. Fig Institute Proc. 13:22-24. Size grades as defined by Dried Fig Association of California; commercial grading discussed.

Hansen, Mrs. Fred H.

1920. Sierra Vista Brand-"Gold Medal of honor" quality. 12 pp. Fresno, California. Advertising circular.

Kaloyereas, Socrates

1941. /Practical guide for the preservation of food./ (In Greek.) 160 pp. Athens. (Figs, pp. 120-22. Figure 20.) Processing dried.

Milco, G. N.

1884. Report of Commissioner Milco for the San Joaquin District. California State Bd. Hort. Bien. Rept. 1884:56-59. (Figs, p. 58.) See also: pp. 82-89. Methods of drying.

Moorhead, E. S.

1923. New fig pack offered trade. Assoc. Grower 5(8):14. Blue Ribbon brand of sterilized fruit; sanitary pack.

Mrak, E. M., J. C. Crane, and René Blondeau

1950. Processing seedless figs. California Fig Inst. Ann. Res. Conf. Proc. 4:11-13. Seven methods described.

Newby, Ellsberry

1917. Experiences and methods in curing and packing figs. California Fig Inst. Proc. 1:72-74.

Niswander, J. F.

1922. World wide markets await fig products; growers are told at Institute. Assoc. Grower 3(3):12. Address of General Manager of Association; includes investigation of fig smut, planting of caprifig orchard, introduction of Fig Brownies, future plans.

Roeding, George

1916. Packing figs in California. Western Canner and Packer 8(1):30.

Rose, D. H., R. C. Wright, and T. M. Whiteman

1938. The commercial storage of fruits, vegetables and florists' stocks. U. S. Dept. Agr. Cir. 278:1-44. (Dried figs, pp. 21, 22.) Mention with other dried fruits.

Rosenberg Bros.

1928. Visipak Ensign brand Black Mission figs. California Fruit News 78(2112):1. Advertisement.

Singh, Lal S. B., Girdhari Lal, and Nagina Lal Jain

1944. Reprocessing of dried fruits. Indian Farming 5:416-19. (Imported figs of inferior quality reprocessed.) Abstracted in: Hort. Abs. 15:121.

Varjebedian, M.

1917. Curing figs for use in making beverages. Chem. Abs. 11: 1500. U. S. Patent No. 1,218,914. March 13. Recipe for making a "tea" of dried figs.

Whelton, Rita, H. J. Phaff, E. M. Mrak, and C. D. Fisher

1946. Control of microbiological food spoilage by fumigation with epoxides. Food Indus. 18:23-25, 174-76, 318-20. Use of ethylene oxide for unsulfured fruits of high moisture content. Packaging at a moisture content above 26%, prevents sugaring during storage.

#### FRESH FIG HANDLING

Anonymous

1917. Handy fig picker. Rural World, June 30. Tin can attached to end of broom handle.

- 1925a. Nuovo di trattamento dei fichi freschi. L'Industria (June 15), p. 297. Abstracted in: Trop. Agr. (Trinidad) 6:283. 1929. Fresh figs immersed twice in paraffine preparation.

- 1925b. Shipping fresh figs to eastern markets. Blue Anchor 2(8): 4, 24, 25. Early developments and methods; special packages, use of "pony" refrigerators, carlot shipments.

1926. Ripe figs have reached Boston market stalls. Boston Transcript, Aug. 6, p. 14.

1927. Fresh figs. California Cult. 69:46. Prices on Los Angeles, San Francisco, and New York markets.

- 1930a. Conservation de figues fraîches à la paraffine. Internatl. Inst. of Refrigeration (Paris) Bul. No. 5:1088. Abstracted in: Rev. Agr. de Afrique du Nord, pp. 79-80, May 16.
- 1930b. Ships fresh figs in cartons built for eggs. Arizona Producer, June 15. Mission figs shipped from Mesa each spring by express.
1931. Blue Anchor grade specifications, 1931. Blue Anchor 8(5): 9-10, 28, 30. (Figs, p. 30.) For later specifications see: 9(5):20, 22; 1932; 10(6):20, 22; 1933; 11(7):20, 21; 1934; 12(6):24; 1935; 13(5):16; 1936; 14(5):27; 1937; 15(5):26; 1938; 16(5):18; 1939; 17(4):6; 1940; 24(2):11; 1947; 25(2):37; 1948; 27(2):12; 1950; 29(2): 10; 1952; 32(2):18; 1955. (Labels used, Bloomfield and Gemlets.)
- 1948a. Fresh figs will be flown east. California Fruit News 117(3128):4. M. Simone, Fresno, proposes to fly some four tons a day of first crop Mission; later some Calimyrnas.
- 1948b. Following through on figs from auction sale to consumer. Blue Anchor 25(4):12, 13. Illus.
1953. Grape packing in consumer cartons is mechanized. Western Fruit Grower 7(7):10-13. Illus. (Fig pack, p. 12.)
1954. Early figs topped market. California Farmer 201:7. E. M. Schwab, Oasis, sold 400 flats of Mission figs from 72 trees at \$7.50 a flat. New planting will be King or No. 91-12 (an unnamed variety).
- Bacon, W. M.  
1922. Picking, packing and shipping fresh figs. California Ann. Fig Inst. Proc. 6:41-43. Carlot shipments; comments on the Sykes pack.
- Brooks, C., C. O. Bratley, and L. P. McCulloch  
1936. Transit and storage diseases of fruits and vegetables as affected by initial carbon dioxide treatments. U. S. Dept. Agr. Tech. Bul. 519:1-24. Figure 1. (Figs, p. 22.) Effect of CO<sub>2</sub> has been tested on fresh figs with favorable results in the control of mold without injury to flavor and appearance.
- Brown, C. I.  
1926. 1926 fresh fig sales in New York. Pacific Rural Press 112:500. Receipts, packages, prices, markets.
1928. California figs in New York. California Cult. 71:10. Good figures on packages, sales, markets.

Brown, L. A.

1926. Fresh fig shipments. California Ann. Fig Inst. Proc. 10: 9-11. (Mimeo.) Packages, markets, demand.

Brundage, O. G.

1922. Handling and shipping fresh Calimyrna figs. California Ann. Fig Inst. Proc. 6:29. Picking and packing for distant shipments and for canning; costs.

Carey, L. C.

1939. Containers for fruits and vegetables. U.S. Dept. Agr. Farm. Bul. 1821:3-63. (Figs, p. 45.)

Clifton, Willard

1954. Fresh figs are packed for eastern markets. California Farmer 201:196. 3 figures. Account of business of Sadoian Bros., Sultana, on shipping by air freight, railway express, and trucks.

Condit, Ira J.

1921. Shipping fresh figs. Assoc. Grower 2(6):7, 43. Markets, packages, "pony" refrigerator, Sykes pack, varieties.
1934. Fresh fig marketing. Blue Anchor 11(5):10-13. 4 figures. History, varieties, picking, packing, and shipping.

Cox, W. F., R. M. Bayer, and T. F. Fitzgerald

1940. Interstate shipments of California deciduous tree fruits season of 1939. 87 pp. Federal-State Market News Service, San Francisco. (Figs, p. 35.) (Mimeo.) Statistics on fig shipments by counties, shipping points by months from 1932-1939, with destinations.

Elliott, Thomas

1917. Marketing of fresh figs. California Fig Inst. Proc. 1: 87-90. Experiences in locating markets, developing packages, use of "pony" refrigerators, picking fruit.
1922. Shipping fresh figs by express. California Ann. Fig Inst. Proc. 6:40-41. Carlot shipments to distant markets.

Hare, Gail

1926. Future marketing of the fresh fig. Pacific Rural Press 111:171. Markets and methods.

Harris, Jack

1922. Best ways of handling fresh fig shipments. Assoc. Grower 3(2):30. Markets, methods of packing, costs.

Hiatt, Richard

1922. Experimental shipping of fresh figs from the Ceres district. California Ann. Fig Inst. Proc. 6:43-46. Local and distant shipments; costs and returns.

Jacob, H. E.

1929. The use of sulfur dioxide in shipping grapes. California Agr. Exp. Sta. Bul. 471:1-24. (Treatment of figs, p. 24.) Results very disappointing; color, texture, and flavor of fruit seriously injured.

Kieffer, D. L.

1926. Growers' fresh fig marketing costs. Pacific Rural Press 111:601. Detailed figures as furnished by Gail Hare, Cutler.

McDowell, A. M., and F. R. Mallory

1947. Interstate shipments of California deciduous tree fruits, season 1946. 75 pp. Federal-State Market News Service, San Francisco. (Mimeo.) (Figs, pp. 1-4, 27.) Interstate shipments by months; destinations of car lots. See also: Season 1948. 67 pp. (Mimeo.) (Figs, p. 26.) Carload shipments, total of 69.

Mackie, D. B.

1931. Heat treatments of California fruits from the standpoint of compatibility of the Florida process. California Dept. Agr. Bul. 20:211-18. (Figs, p. 217.) Brunswick and Mission figs seem able to withstand standard treatment.

Read, F. W.

1926. New developments in the handling and shipping of fresh figs. Blue Anchor 5(9):4. Illustrated account of packages, picking of fruit, maturity, precooling, paraffine dip.
1929. Review of fresh fig shipments for 1929. California Ann. Fig Inst. Proc. 13:16-18. Oct. Also in: Blue Anchor 6(11): 15. Total of 134 cars, all but five shipped by express; packages, prices.
1933. California standard packages. Blue Anchor 10(7):5-9. (Figs, p. 8. Illus.) Exact measurements given.

Rixford, G. P.

1919. Suggested use of half-dried figs. Fig and Olive Jour. 4(6):12. Common in Portugal; scarcely known in California.

Scott, P. B.

1922. Shipping fresh Mission figs. California Ann. Fig Inst. Proc. 6:33-34. First carlot shipment to New York; costs and returns.

Whitney, D. J.

1921. How first car of fresh figs crossed the continent. Pacific Rural Press 102:55. Also in: Fig and Olive Jour. 6(2):5. Figures on costs, profits, use of Sykes pack, future prospects.



1926. Early fresh fig shipments. California Cult. 67:32. Production, costs, prices, returns.

Wright, R. C.

1937. The freezing temperatures of some fruits, vegetables and florists' stocks. U. S. Dept. Agr. Cir. 447:1-10. (Fresh Mission figs, p. 5.) Mention in Table 2; figs freeze at 27.1° F.

#### FREEZING AND COLD STORAGE

Anonymous

1944. Frozen foods packed in California. California Fruit News 109(2914):5. Fresh figs, 1, 380, 969 lbs.

Bartlett, Luis H., and W. R. Woolrich

1942. Polyphase freezing process developed. Food Indus. 14:62-64. (Fig, p. 63.) Freezing of Celestial and Magnolia figs, lye-peeled, in Texas.

Cheema, G. S.

1941. Summary of work done under the Horticulturist, Poona. Bombay Prov. Dept. Agr. Ann. Rept. 1939-40:245-49. (Figs, p. 246.) Kept in a sound condition for about a month at 32° and 35° F.

Claypool, L. L., and S. Ozbek

1952. Some influences of temperature and carbon dioxide on the respiration and storage life of the Mission fig. Amer. Soc. Hort. Sci. Proc. 60:226-30. Storage life of Mission fig greatly extended by reducing temperature to 40° F or below.

Dawson, Elsie H., Gladys L. Gilpin, and Howard Reynolds

1950. Procedures for home freezing of vegetables, fruits and prepared foods. U. S. Dept. Agr. Handbook 2:1-106. (Figs, p. 36.)

Diehl, H. C., W. T. Pentzer, J. A. Berry, and C. E. Asbury

1934. Suggestions for freezing foods are outlined. Western Canner and Packer 26(5):31-33; (6):39-41; (7):33-35; (8):43-44. Varieties, harvesting, handling, preparation, containers, packing, freezing and subsequent storage of figs.

Hohl, Leonora

1946. The freezing of California fruits. Figs. Food Packer 27 (11):66-70. 2 illus. A comprehensive article; review of literature, varieties, experimental work here and elsewhere.

Ildis, Pierre

1949. Congélation rapide des fruits et jus de fruits d'origine tropicale et subtropicale. Fruits d'Outre-Mer 4:361-70. Illus. (Figs, pp. 366-67.) Account after M. A. Joslyn and L. A. Hohl, 1948.

Joslyn, M. A.

1930. Preservation of fruits and vegetables by freezing storage. California Agr. Exp. Sta. Cir. 320:1-35. (Figs, p. 15.) Included with other fruits.

Joslyn, M. A., and W. V. Cruess

1929. Freezing storage of fruits and vegetables for retail distribution in paraffined paper containers. Fruit Prod. Jour. 8(7):9-12; (8):9-12.

Joslyn, M. A., and Leonora A. Hohl

1948. The commercial freezing of fruit products. California Agr. Exp. Sta. Bul. 703:1-108. (Figs, pp. 39, 57, 72.) Varieties, stage of maturity, preparation for freezing.

Joslyn, M. A., and G. L. Marsh

1933. Changes occurring during freezing storage and thawing of fruits and vegetables. California Agr. Exp. Sta. Bul. 551:1-40. (Figs, p. 34.) Practically free from oxidative deterioration during a period of storage of six to eight months.

McGuire, L. P.

1929. Fruit and vegetable storage. Trop. Agr. (Trinidad) 6:279-84. (Figs, p. 283.) Good results secured at 32 to 34° F.

Overholser, E. L.

1922. Keeping the fig in fresh condition by low temperatures. Assoc. Grower 3(6):9, 33. Methods, discussion of results, and summary in two tables.

1924. Factors concerning shipment of deciduous fruits. Pacific Rural Press 107:256. Also in: Assoc. Grower 6(4):12, 32, 33. Freezing of figs; storage in sugar solutions.

Pentzer, W. T., and C. E. Asbury

1931. Observations on the freezing storage of figs. Fruit Prod. Jour. 10:218. Varieties, containers, cutting in half.

Pentzer, W. T., C. E. Asbury, and H. C. Diehl

1932. Progress report on frozen pack investigations of figs. Western Canner and Packer 24(3):24, 25. Abstracted in: Ice and Refrigeration 83(3):114. Methods and results.

Powers, Myron J.

1953. Varietal comparison of fresh figs for freezing and preserve manufacture. California Fig Inst. Ann. Res. Conf. Proc. 7:35-38. Tables 1-2. Laboratory observations; frozen figs in sirup.

Reed, H. M.

1939a. The freezing storage of figs. Ice and Refrigeration 96 (5):425-26. A 30% sirup gave balance between flavor and sweetness.

1939b. The freezing storage of Magnolia figs. Southern Home and Garden 7(11):8, 14.

1946. Investigations on the freezing storage of figs. Quick Frozen Foods 8(7):84-85. Preparation and examination of samples of Magnolia figs, effect of blanching, length of time in storage, results.

Shuey, G. A.

1950. Home freezing of foods. Tennessee Agr. Exp. Sta. Bul. 215:1-54. (Figs, p. 32.) Varieties, Brown Turkey and Celeste; selection and preparation.

Smart, Helen F.

1934. Microorganisms surviving the storage period of frozen-pack fruits and vegetables. Phytopathology 24:1319-31. (Figs, pp. 1325-26.) Frozen figs had remarkably few viable microorganisms.

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- 1931b. Preservation freezing: some effects on quality of fruits and vegetables. Georgia Univ. Exp. Sta. Bul. 168:3-23. Figures 1-11. (Figs, p. 13.) Frozen in 40% sirup in almost perfect condition for 4 to 6 months.
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## CANNING; PRESERVING: CANDYING

## Anonymous

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- 1925b. Texas canned and glassed figs. *Canner* 61(18):30; (26):45.
- 1927a. Figs in wine. *Western Canner and Packer* 19(7):28, 63.  
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- 1927b. Fig preserving company. *California Fruit News* 75(May 28):  
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- 1930a. Figs (canned). The facts in the food markets. *Amer. Inst.*  
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- 1930b. Fig canneries active. *Western Canner and Packer* 22(8):52.  
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figs and jam.
- 1930c. New cannery for Romoland. *Western Canner and Packer* 21  
(10):42. Ready to care for the 1930 fig crop.
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- 1926b. Experiments on canned figs and other fig products. California Annual Fig Inst. Proc. 10:22-26. (Mimeo.) Blanching, preliminary cooking, acidification of the sirup, lye peeling, figs in ice cream and candy.
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- King, Helen W.  
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#### PRODUCTS, MISCELLANEOUS

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- Baker, G. L., V. E. Pollari, and W. G. Murray  
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- Cruess, W. V., and J. La Moglia  
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sugared fresh figs. Rept. 49:194-96. 1936. Canned and spiced figs, conserves, sirup. Rept. 51:24, 143. 1938. Tests of 27 varieties of figs. Rept. 52:24, 161-62. 1939. Tests of 65 varieties: appearance and quality. Rept. 53:156-57. 1940. Drying and preserving numerous varieties. Rept. 54:109. 1941. Condition of crop and preserves.

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Vasseux, A.

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#### ECONOMICS; TARIFF

Anonymous

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- 1938c. Threat to our raisin, fig. and nut industries in Turkish trade agreement. California Fruit News 97(2586):4.
- 1939a. California fig quality should offset import tariff concession. California Fruit News 99(2649):10.
- 1939b. Trade agreement between the United States and the Republic of Turkey. 125 pp. U. S. Tariff Comm., Washington, D.C. (Figs, pp. 16, 20, 44-50.)
- 1949a. Fig Institute asks changes in trade barriers. California Fruit and Grape Grower 3(1):25. Brief being prepared to file with committee in Washington; only item imported under certain classification is "toasted or baked almond figs"; none produced in California.
- 1949b. Fig Institute registers protest at tariff hearings. California Fruit News 119(3161):3.
- 1949c. Fig men protest tariff cut. California Farmer 190:175. Lower tariff on figs from Greece.
- 1950a. Fig men refuse to assist imports. California Fruit News 121(3220):3. Quotes A. E. Thorpe, California Fig Institute.
- 1950b. Import tariff protection demanded by our fig industry. California Fruit News 121(3229):3.
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1940. Proposed substandard dried fig diversion program for 1940 season, to the Agricultural Adjustment Administration, Washington, D.C. 9 pp., 1 table. California Fig Institute, Fresno. (Mimeo.)

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1941. Tariff rates on principal agricultural products. (Revised.) U. S. Bur. Agr. Econ. 88 pp. (Mimeo.) (Figs, pp. 34, 77.) Rates on figs and fig products.

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#### STANDARDS; INSPECTING; TESTING

Anonymous

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1927. Dried figs must be clean. Pacific Rural Press 114:109. Ruling by federal Pure Food authorities effective July 1; suggestions on harvesting and storage.
1929. Fig growers and packers getting together on quality inspection. California Fruit News 79(2130):9. Federal government allowed industry to "police" itself if done properly.
- 1930a. Inspecting the interior of figs. Food Industries 2:85. (Patent No. 1,729,611.) Roll with series of cutting blades opens slits in the figs; slits closed by an adjustable pressure roll.
- 1930b. Plan to ban inedible figs. Western Canner and Packer 21(9):42.
1932. Seizures of figs fewer this year. California Fruit News 85(2281):13. Nearly one-fourth of 9,000,000 lbs. of imported figs detained because of low quality.
1935. Instructions to fig inspectors. 6 pp. Dried Fruit Assoc. of California, San Francisco. Mostly quoted from report by B. J. Howard. See also: Instructions 1940. 5 pp. (Mimeo.) Instructions 1942, 1943.
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Barre, L. H.

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Campardon, Ch.

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Condit, Ira J.

1919. The standardization of figs. Fresno Repub., Oct. 19. 1 illus. Initial step taken by Fig Association; the state Pure Food Law; grades of figs.

De Soriano, A. M.

1943. Inspección de frutas secas y desecadas del comercio. Rev. Argentina de Agron. 10:385-95. Inspection of samples dried figs and infestation.

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1926. Report of Committee on Standardization. California Ann. Fig Inst. Proc. 10:11-13. (Mimeo.) Deals with fresh fig shipments.

Hodges, F. A.

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Howard, B. J.

1929. Fig testing. 11 pp. U. S. Food, Drug, and Insecticide Admin., Washington, D.C. July 1. (Mimeo.) Sampling, equipment, classes of defective figs, tolerance, fig paste.

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Kieffer, D. L.

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1945. Tentative United States standards for grades of dried figs. 5 pp. War Food Adm., Office of Market. Serv., Washington, D.C. (Mimeo.) Specifications for sizes and grades; explanation of terms. See also: California Fruit News 111:6. May 5; p. 6. May 12.

Marrone, J. M.

1928. Entry of wormy figs into the United States. 4 pp. U. S. Dept. Com. Cir. Letter, July 10. (Mimeo.) Also in: California Fruit News 78(2092):4. Situation in the Mediterranean area.

Newby, Ellsberry

1919. Fig inspection works to advantage of growers. Fig and Olive Jour. 4(7):14-15.
1920. The fig industry from an inspector's point of view. Fig and Olive Jour. 4(10):10, 11; (11):5, 6.

Pilgrim, A. J.

1950. Quality tests and a comparison of seedless and caprifigged figs. California Fig Inst. Ann. Res. Conf. Proc. 4:9-11. Hormone-set figs averaged 20 per cent higher than in caprifigged figs.

Tilden, Doris H.

1950. Studies on the recovery of insects and insect parts from fig paste by certain procedure. Assoc. Off. Agr. Chem. Jour. 33:109-114. Extraction of insect parts by castor oil flotation described and results given in tables.

Wharton, W. R. M.

1930. Rejection of figs unfit for food. U. S. Dept. Agr. Yearbook 1930:267. Subject to insect infestation and mold contamination; 50 per cent of all imports refused admittance in 1929.
1931. Inspection insures quality of dates and figs. California Fruit News 83(2229):13. Figs inspected, detained, released for reconditioning.

Whyte, Arthur R.

1951. The Dried Fruit Association inspection agency. California Fig Inst. 16th Ann. Meet. Rept.:39-42. Fresno history, incoming inspection, inspection of shipments, magnitude of task.

## MARKETING; PRICES

Allmendinger, W., and Charles Fuqua

1952. Exports alone cannot erase surplus. *Western Fruit Grower* 6(6):12, 14. Federal government assistance program on figs, 1947-1951.

Anonymous

1918. Price of figs in United Kingdom. *California Fruit News* 58(1570):3. Retail no more than 16 cents a pound.
1924. New fig prices announced. *Assoc. Grower* 6(6):13; (7):30. Opening prices; raise July 7.
- 1929a. Fig growers receive another payment. *California Fruit News* 79(2121):13. Total payments on 1928 crop.
- 1929b. Prune Association to market for Peach and Fig Association. *California Fruit News* 80(2146):5. Fig Association to do all processing; Prune Association to handle markets.
1930. California Peach and Fig Growers final payment, 1928. *California Fruit News* 81(2167):9. Prices by varieties; Calimyrna average 6 ¢ a pound, Adriatic 4.3¢.
1930. 1954 dried fig market information bulletins. Federal-State Marketing Service, U. S. Dept. Agr. and California Dept. Agr. cooperating. Bulletin No. 1 issued Sacramento, Calif., Aug. 20, 1930. Bul. No. 222 issued Dec. 9, 1954.
- 1931a. Fig prices too low. *Pacific Rural Press* 122:226. Decline in yield but prices still low; wage scale passed.
- 1931b. Government loses export fig case appeal. *California Fruit News* 84(2262):9. 2,000 sacks seized and shipped to Austria.
1932. Dried fig pool suggested. *California Fruit News* 85(2270):9; See also: (2271):3; (2272):11; (2274):11; (2275):9; (2276):13. 85 per cent of fig tonnage to be signed up for pool.
1934. Smyrna fig prices open above 1933. *California Fruit News* 89(2395):10.
1935. Fig Institute formed. *California Fruit News* 91(2431):3. Meeting at Fresno of growers from all over state organized California Fig Institute; D. K. Grady selected as Chairman.

- 1936a. Fig Institute reorganized for permanence. California Fruit News 93(2487):3. Growers met, selected executive committee of nine directors all producers, and advisory committee of 25 directly interested in industry.
- 1936b. Prune Association abandons fig marketing. California Fruit News 93(2489):5.
- 1936c. Substandard fig diversion approved at Washington. California Fruit News 94(2511):3. Approved by Sec. Wallace; effect immediate.
- 1937a. Fig growers receiving federal benefit payments. California Fruit News 96(2580):5. 4,500 tons delivered to diversion pool.
- 1937b. Fig Institute meets. California Fruit News 95(2530):9. Accomplishments reviewed; A. J. Brown succeeds D. K. Grady.
1939. Dried fig quality will be maintained. California Fruit News 100(2665):5. Minimum test of 70 per cent passable figs to be maintained.
1940. Dried fig quality program continued. California Fruit News 102(2714):3. Tolerance of 5 per cent for excessive sunburned and scarred black figs.
1941. Dried fig season report of 1940. California Fruit News 103(2741):5. Report of H. H. Hyde, Calif. Fig Institute. See also: California Cult. 88:326. In Fresno county alone, 3,000 caprifig trees pulled out or grafted over.
- 1943a. Agricultural Prorate Act--revised to Aug. 4, 1943. 24 pp. Bureau of Markets, State Dept. Agr., Sacramento, California. (Canning figs exempted, Sect. 8.1.)
- 1943b. All possible figs must go into food channels. California Fruit News 108(2872):3. Order No. 62 prohibits sale, purchase or use of figs for alcohol or beverages, syrups, flavoring, etc.
- 1943c. Announce grower prices for figs for canning, also drying. Fruit Prod. Jour. 23:23. Kadotas for canning, \$125.00 per ton; dried Calimyrnas, \$380.00 per ton.
- 1943d. Dried fig quality marketing program sustained in referendum. California Fruit News 107(2867):3. Producers voted in favor of Marketing Program.



- 1944a. Association of Food Distributors opposes California's stand on fig imports. California Fruit News 110(2947):3. Average yearly imports into United States 1919-1929, over 15,000 tons.
- 1944b. Cull dried figs brought big prices. California Fruit News 109(2915):7. Grade 1 brought \$150 a ton.
- 1944c. Dried fig summary of 1943 season. California Fruit News 110(2932):12. (California State Market News Serv., Inf. Bulletin.)
1946. Fig price really based on import tests. Pacific Rural Press 152:206. Prices, imports, quality.
- 1948a. California Fig Institute working on future marketing plan. California Fruit News 117(3110):4. Objectives: stabilization of price at grower level resulting in stabilized trade quotations with consequent confidence in the dried fig market.
- 1948b. Fig advertising paying off. California Farmer 188:238. Advertising by Institute of \$100,000, beneficial.
- 1948c. Fig growers face decision. California Farmer 188:183. Price dropped almost 50 per cent from last year, future of industry discussed.
- 1948d. Light dried fig crop meets good demand. California Farmer 189:498. Crop of 22,500 tons merchantable against 30,641 tons previous year; prices higher.
- 1948e. Report to growers by California Fig Institute. California Fruit and Grape Grower 2(3):17, 18.
- 1949a. Dried fig program out for vote. California Fruit and Grape Grower 2(7):24, 28. Marketing program; surplus pool; government purchases. Six tons fresh figs sent by air to Cleveland and New York. See also: 2(8):19; (9):25; (10):27; (11):22; (12):19.
- 1949b. Dried fig 1948 summary. California Fruit News 120(3194):4. From Bulletin of California State Market News Service on production, prices, imports.
- 1951a. Dried fig market summary of 1950. California Fruit News 124(3297):4. From Bulletin of California Market News Service on production, imports, foreign trade, prices.
- 1951b. Fig industry looks to good year in 1951. California Farmer 194:94. 16th annual meeting of California Fig Institute.

1951c. Huge fig advertising campaign slated for industry. California Farmer 194:15. California Fig Festival month in February; four-color advertisements in six national magazines.

1955. Fig packers seek import protection. Western Canner and Packer 47(7):42, 46. 2 illus. New federal Fig Marketing order, cancer check, fig juice, imports, statistics.

Bennett, J. F.

1951. Operations of marketing control measures. California Fig Inst. 16th Ann. Meet. Report. Pp. 34-38. History, policy, marketing program for figs.

Brock, A. A.

1950. Operating rules and regulations for 1950 marketing season; program for figs. 6 pp. Exhibit A. Amending grades and diversion requirements. 3 pp. Rules and regulations for 1950-1951 marketing season. 7 pp. California State Dept. Agr., Sacramento. (All mimeo.)

Brown, C. L.

1930. The trend of dried fruit demand. California Cult. 75:56. Few dried fruits made better gains than figs; packs compare favorably with imported Smyrna figs.

Carey, C. J.

1949. Division of Marketing. California Dept. Agr. Bul. 38: 352-57. (Marketing order for dried figs, pp. 353, 354.) Assessments.

Critchfield, B. H.

1929. Problems involved in the marketing of California canned peaches. 60 pp. California Canning Peach Growers, San Francisco. (Figs, pp. 30, 35, 40.)

Dudley, J. W.

1941. Fig men view market conditions. California Cult. 88:440. Crop of 1940 valued at \$2,166,000 as compared to 1932 at \$484,000; elimination of poor figs and improved quality.

Durand, Gilbert

1949. Contribution à l'étude du prix de revient et de vente des figues sèches de la campagne 1949-1950. Algérie Bul. Econ. et Jurid. 13:478-89. Detailed figures and tables of prices.

Forkner, J. C.

1917. On fig marketing. Fresno Repub. Agr. Dept. (Dec. 30), p. 26. California production; quality must be improved.

**Frank, Tenney, et al.**

1938. Economic survey of ancient Rome. Vol. IV. 950 pp. John Hopkins Press, Baltimore. 2d century A.D. in Syria, 3 to 4 figs @ 1 Syrian or 5/8 cent U.S. Early 3d century A.D. in Africa, 100 pounds figs, 80 sesterces, or \$4.00 U.S.

**Grady, D. K.**

1930. Consumer demand for dried figs. California Fruit News 82(2211):4. Demand not good; market weak, sales below even tariff level of 5¢ per pound.
1937. Dried fruits. California Dept. Agr. Bul. 26:51-54. (Figs, p. 52.) Brief account.

**Henderson, Leon**

1942. Canned and preserved foods. O. P. A. maximum price regulation 227. California Fruit News 106(2830):4, 6, 7. (Figs, p. 6.) Prices on paste and packaged figs.

**Hodgkin, Geo. B.**

1942. Calavo Growers of California 19th Ann. Report. 20 pp. Calavo Growers, Los Angeles. (Dried figs, p. 14.) Sales by years of dried figs; 1941-1942, \$165,316; 1939-1940, \$92,087. See also: 21st Ann. Report. (Dried figs, p. 7.) Mention only.

**Hyde, Harold H.**

1941. California dried fig industry, status and outlook. 8 pp. 8 tables by S. W. Snear. California Fig Institute, Fresno. History, acreage and production trend, import situation, trade stimulation, conclusion.
1942. The progress of the California dried fig industry and general market outlook. 8 pp. California Fig Institute, Fresno. (Mimeo.) Recent history, present situation and outlook, general picture, problems ahead.
1944. Minimizes Turkish fig import fear. California Fruit News 110(2946):3. Threat can be greatly discounted. See also: (2947):3.
1945. Director's Annual Report. 10 pp. 6 charts. Tenth Ann. Meeting California Fig Institute, Fresno. (Mimeo.) Production, prices, activities in behalf of the industry, problems.
1947. California Fig Institute Report. California Fruit News 115(3067):3, 4. Summary.
1951. The Dried Fig Advisory Board. California Fig Inst. 10th Ann. Meet. Rept.:43-44. "Pack-out" inspection program assures trade California figs above United States standards.

Johnson, Paul L.

1949a. Annual report for the year 1948. 8 pp. California Fig Institute, Fresno. Advertising and sales promotion, research, marketing, substandard and surplus pools, Dried Fig Advisory Board.

1949b. Figs and the national farm program. California Fruit and Grape Grower 2(6):32. Production, marketing, outlook.

1949c. Prospects for the future. California Fruit and Grape Grower 3(2):20, 21. Markets, tariff, varieties.

Kieffer, D. L.

1931. Keen desire for good figs. Pacific Rural Press 122:262. Demand, grading, prices.

1933. Low test white fig pool. Pacific Rural Press 125:436. Prospect of a pool, production, prices.

1944. Deciduous fruit prices recommended for 1944. Pacific Rural Press 147:122. Calimyrnas (75 per cent test) \$380 per ton; Adriatics (80 per cent) \$250 per ton; Kadotas (natural, 85 per cent) \$230; Mission (85 per cent) \$200.

Kuhrt, W. J.

1941. Bureau of Markets. California Dept. Agr. Bul. 30:472-92. (Marketing program for dried figs, as modified, pp. 485-86, 490.) See also: Bul. 31:300-301. 1942; Bul. 32:371. 1943; Bul. 33:354-55. 1945; Bul. 34:306-9. 1945; Bul. 35:321. 1946; Bul. 36:290-91. 1947; Bul. 37:374-76. 1948; Bul. 38:353. 1949.

McKay, A. W., et al.

1926. Marketing fruits and vegetables. U. S. Dept. Agr. Yearbook 1925:623-710. (Figs, pp. 696, 698.) Imports 42,464,895 pounds valued at \$2,478,755.

Macklin, Theodore

1940. Bureau of Markets. California Dept. Agr. Bul. 29:386-412. (Dried Fig Proration Zone No. I, pp. 406, 409.) Regulates quality, provides for grading of all dried figs; production and prices.

Macklin, Theodore, and W. J. Kuhrt

1939. Bureau of Markets. California Dept. Agr. Bul. 28:652-63. (Agricultural Prorate Act; dried figs, pp. 661, 662.) Brief account.

Moorhead, E. S.

1922. The merchandising of figs. Assoc. Grower 4(4):9, 32. Illus. Canned Calimyrnas, fig jam, fresh fig pie.

## Randolph, Julian

1950. Dried fig marketing survey: a study of practices and problems in the distribution of California dried figs. 114 pp. State Dept. Agriculture, Sacramento. (Mimeo.) Quality, packaging, prices, merchandising, varietal aspects, suggestions.

## Robinson, Elwood J.

1951. Advertising and sales promotion. California Fig Inst. 10th Ann. Meet. Rept.:27-33. Black fig promotion, school program, recipe publicity, fig festival.

## Shear, S. W., Sidney Hoos, and H. R. Wellman

1941. Effects of the War on California fruit industries. Giannini Foundation Agr. Econ., Univ. California, Mimeo. Report No. 74:1-97. (Figs. pp. 14, 46, 56, 67, 68, 88.) Imports, prices, exports.

## Smith, Sterling

1935. Merchandising figs. Comments on dried fruits. Western Canner and Packer 27(5):15, 16.

## Thorpe, A. E.

- 1950a. Annual report of California Fig Institute. 21 pp. 12 tables. Calif. Fig Institute, Fresno. Report of 15th annual meeting on marketing, Substandard Diversion Pool, advertising, tree removal, research, Dried Fig Advisory Board.
- 1950b. 1949 fig program summarized. California Farm Bur. Mo. 31(1):13. Tree removal described and figures given.
1951. California Fig Institute. California Fig Inst. 10th Ann. Meet. Rept.:1-11. Growing, harvesting, prices, farm value, industry programs, imports, finances, outside assistance, processing, outlook for 1951. Summary in: Western Fruit Grower 5(6):25.
- 1952a. Figs. Amer. Fruit Grower 72:53. Production, field prices, marketing program, imports, advertising.
- 1952b. Fig growers' self-help program. Western Fruit Grower 6(6):10, 11.

## Tyler, John G.

1951. The marketing program for figs. California Fig Inst. 10th Ann. Meet. Rept.:20-26. History, objectives, review of 1950 season.



York, G. K.

1933. Market News Service. California Dept. Agr. Bul. 22:494-520. (Figs, p. 518.) See also: Bul. 24:490. 1935; Bul. 25:558-59. 1936; Bul. 26:480, 510-11. 1937; Bul. 27:744-45. 1938; Bul. 28:704. 1939; Bul. 29:460-61. 1940; Bul. 30:533-34. 1941; Bul. 31:338. 1942; Bul. 32:420. 1943; Bul. 33:404. 1945; Bul. 34:370-71. 1945; Bul. 35:379-80. 1946; Bul. 36:328, 360. 1947; Bul. 37:420, 468. 1948; Bul. 38:402, 449-50. 1949; Bul. 39:405, 442-43. 1950; Bul. 40:392. 1951; Bul. 41:432-33. 1952; Bul. 42:428. 1953.

#### ORCHARD PROMOTION

Anonymous

1919. An interesting report of progress on the world's largest fig orchard. Fig and Olive Jour. 3(2):9-10. Forkner Fig Gardens, Fresno.
1920. The story of a new development, the Planada Fruit Farms. Fig and Olive Jour. 4(8):15. Harrison Dibble and George Pratt; Wm. Kirkman will plant 1,000 acres.

Avery, W. H.

1928. Let a 5-acre grove in Angoula Orchards be your old-age insurance policy. 7 pp. Illus. Angoula Orchards, Casa Grande Valley, Arizona.

Brauer, O. L.

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## King, Caroline B.

1941. Victorian cakes. 275 pp. Caxton Printers, Caldwell, Idaho. (Fig cake, p. 51.)

## Kracknart, Carl

1907. Neues illustriertes conditorei-buch. 231 pp. Killinger, Nordhausen. (Feigen, p. 143, grüne, als compot, p. 161.)

## Kramer, Bertha F.

1889. Aunt Babette's cook book. 495 pp. Block Publ. and Fr. Co., Cincinnati. (Figs, pp. 207, 259, 369, 379.) Pudding, sauce, candy, and preserves.

## Laporte, Armand de

1870. Hygiène de la table. 516 pp. Par J. P. A. de la Porte. I. Savy, Paris. (Figues, pp. 116-18.)

## Leany, Charles

1950. Spanish-Mexican cook book. 147 pp. Murray and Gee, Culver City, California. (Fig candy, p. 129, conserve, p. 135.)

## Lemery, Louis

1705. Traité des aliments. (2d ed.) 562 pp. Pierre Witte, Paris. (Figues, pp. 32-34.)

## Lord, Isabel E.

1924. Everybody's cook book. 916 pp. Henry Holt and Co., New York. (Fig, see index.) Several recipes given.

## McInerny, Claire, and Dorothy Rocne

1939. Savour; a new cookery book. (3d ed.) 222 pp. Oxford Univ. Press, London. (Fig pudding, p. 103.)

## McNeill, I. Marian

1937. The Scots kitchen. 260 pp. Blackie and Son, London. (Fig cake, p. 227.)

Manduit, Vicomte de

1934. *The Vicomte in the kitchen*. 326 pp. Covici-Friede, New York. (Fig pudding, p. 181.)

Ménon

1776. *La Science du maître d'hôtel*. 525 pp. Leclerc, Paris. (Figues confites du liquide, p. 218; figues confites au sec, p. 218; figues vertes au naturel, p. 220.)

Montagne, Prosper, and Prosper Salles

1929. *Le grande livre de la cuisine*. 1480 pp. Ernest Flammarion, Paris. (Figues, p. 1270.) Several recipes.

Morphy, Marcelle

1936. *Sweets and puddings*. 124 pp. Herbert Joseph, Adelphi, London. (Fig mould, p. 29, fig pudding, p. 70.)

Mulvey, Ruth

1950. *Good food from Mexico*. 290 pp. M. Barrows, New York. (Preserved figs, p. 221, candied, pp. 228-29.)

Neil, Marion H.

1916. *When you cook figs*. Country Gentlemen 81:1779. Recipes given.

Nietlispach, (Frau) Freta

1929. *Gemüse- und Früchtespeisen*. 64 pp. Bong & Co., Berlin. (Feigen salat mit Aepfeln, p. 11.)

1930. *Kuchen, Torten, Kleingebäck und Süßspeisen*. 148 pp. Bong & Co., Berlin. (Feigen in Schnee, nach Carlton-Art, p. 124.)

1934. *Tourtes, tartes, pâtisseries, et sucrés*. Otto Walter, Olten, Switzerland. (Figues en Neige, p. 120.) Pies, pastries, cakes, puddings, and sweets. Transl. by M. F. Daniels. 128 pp. J. Hamilton, London.

Osborne, Mabel

1938. *Hors-d'oeuvres for nay dieters*. 94 pp. George G. Harrap & Co., London. (Fig salad hors-d'oeuvres, p. 50.)

Owen, Jeanne

1942. *Lunching and dining at home*. 284 pp. A. A. Knopf, New York. (Figs stewed, with cream, p. 240, sliced fresh or preserved, p. 278.)

Parloa, Maria

1882. *Miss Parloa's new cook book*. 430 pp. Estes and Lauriat, Boston. (Fig ice cream, p. 297, pudding, p. 264.)

Peel, Dorothy C. (Mrs. C. S.)

1939. *My own cookery book*. 340 pp. Frederick Warne, London. (Fig pudding, p. 206.)

Platt, June

1936. June Platt's party cook book. 277 pp. Houghton Mifflin & Co., Boston. (Fig pudding, boiled, p. 182.)

Porter, Virginia, and Esther Latzke

1939. The canned food cook book. 343 pp. Doubleday, Doran & Co., New York. (Fig nut muffins, p. 36, fig and cheese sandwiches, p. 254.)

Pretlow, Mary D.

1930. Old southern receipts. 228 pp. R. M. McBride Co., New York. (Figs dried and preserved, p. 175.)

Ranhofer, Charles

1920. The epicurean. 1183 pp. Hotel Monthly Press, Chicago. (Figs brandied, p. 1050, jam and marmalade, p. 1053.)

Richter, Moritz

1937. Preis-Einmachebuch. (6th ed.) 193 pp. H. Killinger, Nordhausen. (Feigen, p. 86, in Branntwein, p. 126.)

Richter, Moritz, and F. G. Feutel

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Ripperger, Helmut

1942. Spice cookery. 95 pp. George W. Stewart, New York. (Fig pudding, p. 86.)

Robertson, Helen

1936. Cassell's new cookery book of British and American dishes. Cassell & Co., London. 528 pp. (Figs stuffed, p. 141, dried, p. 168.)

Romanne-James, Constance

1938. Herb-lore for housewives. 264 pp. Herbert Jenkins, London. (Fig decoctions, p. 26, oils, p. 32.)

Rombauer, Irma S.

1946. The joy of cooking. 684 pp. Bobbs-Merrill Co., New York. (Fig, see index.) Recipes.

Rorer, Sarah T.

1902. Mrs. Rorer's new cook book. 731 pp. Arnold & Co., Philadelphia. (Fig, see index.) Recipes.

1912. Sandwiches. Arnold & Co., Philadelphia. (Fig, p. 58.)

Rowe, Bess M.

1942. The country kitchen cook book. 243 pp. Webb Book Publ. Co., St. Paul. (Fig pudding, p. 103, cream, p. 104, tapioca, p. 115.)



St. Clair, Harriet

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Schneider-Schlotn, Amalie

1930. Basler Kochschule. 516 pp. Friedrich Reinhardt, Basel, Switzerland. (Feigenbutter, p. 70.)

Schumacher, C.

1936. Cook's tour of European kitchens. 200 pp. Chatto and Windus, London. (Figs and apples, p. 130, figs and maraschino, p. 158.)

Semple, Cathrie

1938. "Wheel House" good health recipes. 57 pp. C. W. Daniel Co., London. (Fig coffee, p. 54.)

Senn, Charles H.

1933. Senn's century cookery book. (10th ed.) 1152 pp. Ward, Lock & Co., London. (Figures a la crème, p. 818.)

Shippee, Mrs. Paul

1937. Fig pudding; best recipe of month. Florida Grower 45(1): 20.

Slade, Jeanette V. D.

1939. Mrs. Slade's South African cookery book. 546 pp. Cape Times Ltd., Cape Town. (Fig preserve, p. 438, jam, p. 446.)

Smith, Hermann

1944. Kitchens near and far. 270 pp. M. Barrows, New York. (Fig and anchovy salad, p. 227.)

Stennis, Mary A.

- 1931a. Florida fruits and vegetables in the commercial menu. 164 pp. Florida State Dept. Agr. Bul. 50(n.s.). (Figs, p. 98-100. Color pl.) Celeste, Brown Turkey, and Brunswick described; recipes given.
- 1931b. Florida fruits and vegetables in the family menu. 100 pp. Florida State Dept. Agr. Bul. 46(n.s.). (Fig, pp. 30, 66, 74. Color pls. 1, 15.)

Stockbridge, Bertha E. L.

1918. The liberty cook book. 493 pp. D. Appleton & Co., New York. (Fig, see index.)

Taylor, Ruth

1936. The kitchenette cook book. 299 pp. Charles Scribner's Sons, New York. (Figs and peanut butter sandwich, p. 215.)

Terhune, Mary V.

1906. Marion Harland's complete cook book. 781 pp. Bobbs-Merrill Co., Indianapolis. (Fig, see index.) Recipes.

Universal Lexikon

1893. Universal Lexikon der Kochkunst. 2 vols. J. Weber, Leipzig. (Feigen, I:291-92.)

Urbain-Dubois, Félix

1926. École des cuisinières. (18th ed.) 692 pp. E. Flammarion, Paris. (Figues fraîches, pp. 511, 533, conservees, p. 618.)

1930. La pâtisserie d'aujourd'hui. 466 pp. E. Flammarion, Paris. (Figues, pp. 79, 181.)

Van Arsdale, May B., and Ruth P. Casa Emeillos

1941. Our candy recipes and other confections. 188 pp. M. Barrows & Co., New York. (Figs, stuffed, pp. 124-25.)

Wallace, Lily H.

1925. Foods from sunny lands. 22 pp. Hills Bros. Co., New York. (Figs, 3 pp.) Illustrated advertising booklet with recipes.

West, Betty M.

1949. Diabetic menus, meals and recipes. 254 pp. Doubleday, Page and Co., Garden City. (Fig canning, p. 204, molded in cream, p. 190, food value, pp. 224, 226.)

Wolcott, Imogene

1939. The Yankee cook book. 398 pp. Coward-McCann, New York. (Fig pudding steamed, p. 200.)

Woody, Elizabeth

1942. The pocket cook book. 490 pp. Pocket Books, New York. (Fig muffins, p. 76.)

Wright, Richardson

1943. The bed-book of eating and drinking. 320 pp. J. B. Lippincott Co., New York. (Figs in claret, p. 54.)

Y. W. C. A.

1940. Recipes from historic Long Island. 416 pp. Nassau County Young Women's Christian Association, Nassau County. (Fig cake, p. 252.)

Zemurray, Sarah

1936. One hundred unusual dinners and how to prepare them. 146 pp. Thomas Todd Co., Boston. (Figs Parisienne, p. 115, fresh figs ablaze, p. 133.)

Ziemann, Hugo, and Mrs. F. L. Gillette

1904. The White House cook book. 590 pp. Saalfeld Publ. Co., New York. (Fig pudding, p. 384, candy, p. 433.)

## FOOD VALUE; USES

## Ainslie, Whitelaw

1813. *Materia medica* of Hindoostan. 301 pp. Gov't. Press, Madras. (Ficus carica, p. 16.) Brief report.

1826. *Materia medica*; or some account of those articles which are employed by the Hindoos and other eastern nations. 2 vols. Longmans et al., London. (Fig, 1:131-32.) Figs very inferior in flavor to those of Turkey; tree called Doomoor in Bengali; refers to a medical work written by Ismael Ben Hussein, "Zekhireh Khuarizm Shahy", which gives Persian opinions of the fig.

## Ali, Muhiddin

1932. Der Vitamingehalt getrockneter Feigen und Datteln. Arch. f. Hyg. 107:219-33. Good review and data.

## Alison, Wm. H.

1946. Cows like figs. California Cult. 93:85. See also: Pacific Rural Press 151:85. Figs laxative and must be used with care; feeding value about seven-eighths that of barley.

## Amatus Lusitanus

1553. *Discoridis Anazarbei de medica materia libros enarrationes eruditissimae Amati Lusitani*. Gualterium Scotum, Venetiis. 1554. Argentini. 536 pp. (Fig, pp. 166-67.) Cited by M. Colmeiro, 1885.

## American Can Company

1943. The canned food reference manual. 552 pp. American Can Co., New York. (Figs, pp. 190, 191, 306, 318, 333, 353, 366.) Mineral constituents; standards for canned figs.

## American Medical Association

1939. Accepted foods and their nutritional significance. 492 pp. American Med. Assoc., Chicago. (Figs, pp. 76, 87.) California canned figs, composition; products of Beckwith Packing Corp. and of Cresca Co. accepted; dried figs, handling, vitamin content.

## Andrews, J. C.

1946. The sun. Hygeia 24:588-89. Fig mentioned as photosensitizer.

## Anonymous

1872. *Pharmacopoea Germanica*. 442 pp. R. de Decker, Berolini. (Ficus carica, p. 58.)

1896. California dried fruits and how to cook them. 15 pp. California State Agr. Soc., Sacramento. (Figs, p. 11.)
1917. Fig leaves for stock feed. Joaquin 1(3):43. Cattle feeding on fig leaves in Kelsey Mission orchard, Merced Falls.
1918. Botanical nomenclature.<sup>7</sup> (In Chinese.) Commercial Press, Shanghai. (Ficus carica, pp. 1048-49.) Figs for food, leaves for medicine.
1923. Figs as food. 7 pp. Illus. California Peach and Fig Growers, Fresno. Food value.
1942. Food charts; foods as sources of the dietary essentials. 20 pp. American Med. Assoc., Chicago. (Dried figs, p. 14.) 1.5 ounces contain 0.08 grams calcium.
1947. Figs for feed. California Cult. 94:366. Excellent for stock.
1948. Feeding cull figs to stock. California Farmer 189:245. Worth about seven-eighths as much as barley for dairy cattle food.

## Arnou, Ch.

1925. Les industries de la conservation des fruits. 280 pp. Libr. Spec. Agricole, Paris. (Figuier, pp. 205-11.) Figues confites, au sirop, sèches, sirop de figues, gelée de figues, café de figues; analyses; preparation of products.

## Bailey, E. H. S., and H. S. Bailey

1922. Food products from afar. 287 pp. The Century Co., New York. (Figs, pp. 88-94.)

## Baker, Audrey Z., and Margaret D. Wright

1935. The vitamin B<sub>1</sub> content of foods. Biochem. Jour. 29:1802-7. (Fig, p. 1806.) Report on work with rats; doses and responses.

## Baker, G. C.

1907. Figs and pigs. West. Austral. Dept. Agr. Jour. 15:254-55. Quotes from Settlers Guide, 1897, by L. Lindley-Cowen, about figs for pig feed. Comments and record of plantings.

## Bassagana, Pedro

1859. Flora médico-farmacéutica abreviada. 612 pp. Narciso Ramirez, Barcelona. (Ficus carica, p. 452.) Properties, uses.

## Basu, B. D.

1918. Indian medical plants. Fanini Office, Allahabad. (Ficus palmata, Pl. 903.)

Berendes, J.

1891. Die Pharmacie bei den alten Culturvölkern. 2 vols. Tausch und Grosse, Halle. (Feigen, 1:43, 96, 187; 2:14.) Mentioned from Persia; commonly used by Hebrews.

Berg, Otto

1879. Pharmakognosie des Pflanzen- und Thierreichs. (5th ed.) 696 pp. Rudolph Gaertner, Berlin. (Feigen, pp. 354-56.) General, botany, caprification; kinds of figs, composition, uses.

Bischoff, Gottlieb W.

1832. Medicinisch-pharmaceutische Botanik. 875 pp. Enke, Erlangen. (2d ed.) 1847. (Ficus carica, pp. 579-80.)

Black, Miss M. H.

1930. High dietetic value of dried fruits. Western Canner and Packer 21(12):86. Seeds of figs particularly effective as a laxative.

Bogert, L. Jean

1931. Nutrition and physical fitness. 554 pp. W. B. Saunders Co., Philadelphia. (Figs, pp. 93, 100.) Dried fruits have high fuel value, are rich in sugar, and carry much calcium and iron.

Bonnet, Theophile

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Booher, Lela E., and Rosemary L. Marsh

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Booher, Lela E., et al.

1942. A compilation of the vitamin values of foods in relation to processing and other variants. U. S. Dept. Agr. Cir. 638:1-244. (Fig, pp. 92, 93.) Vitamin values given.

Boorde, Andrew

1542. The first booke of the introduction of knowledge. A compendious regyment, or, a dyetary of health. Ed. by F. J. Furnival. 384 pp. Early English Text Soc., by N. Trübner and Co., London. (Figs, pp. 212, 282.) "A Uicen sayth that fygges doth nowrysshe more than any other frute."

Bosz, J. E. Q.

1910. Food value of dried Surinam bananas and figs. Indische Mercur 33:695-96. Abstracted in: Exp. Sta. Rec. 26:68. Fig mentioned only.



Botan, P. P.

1935. Dictionnaire des plantes médicinales. 275 pp. Soc. Française, Paris. (Figuier, p. 91.) Brief account.

Bouinhol, J. J.

- 1943 (1951). Le ver à soie accepte comme nourriture la figue. Soc. Lin. de Bordeaux Proc. verb. 93:106-7. Abstracted in: Biol. Abs. 25:3107. Silkworms could be raised on fruits of Ficus carica.

Brestowski, A.

1893. Handwörterbuch der Pharmacie. 2 vols. W. Braumüller, Wien. (Feigen, 1:650, 660.) Composition, uses, caprification.

Bridges, Milton A.

1933. Dietetics for the clinician. 666 pp. Lea and Febiger, Philadelphia. (Figs, pp. 609, 621, 629, 633, 635, 636.) Mineral constituents of fresh and dried figs; 10 units vitamin A per ounce.

Brunton, T. Lauder

1893. A text-book of pharmacology, therapeutics and materia medica. (3d ed.) 1261 pp. Macmillan and Co., London. (Fig, pp. 347, 389, 1028-29.) A demulcent, a laxative; characters, composition, uses.

Bruntz, L., and Marcel Jaloux

1918. Plantes officinales et plantes à drogues médicamenteuses. 260 pp. Vigot Frères, Paris. (Ficus carica, p. 47.) An index of plant materials in various pharmacopoeias; references only given, without page citations.

Buchheister, G. A.

1906. Handbuch der Drogisten-Praxis. (8th ed.) 943 pp. Julius Springer, Berlin. (Feigen, pp. 179-80. Figure 143.) Short, general.

Cabrera, Luis G.

1943. Plantas curativas de Mexico. (2d ed.) 299 pp. Edic. Ciceron, Mexico, D. F. (Higuera, pp. 126-27. 1 illus.) Properties, uses.

Calano, Prospero

1550. Traité excellent, de l'entretienement de santé, par Prosper Calanius. (Traduction attribuée à Jean Goevrot.) V. Sertenas, Paris. Food value, medicinal properties of fig. Cited by Henri Leclerc, 1925, p. 207.

Candolle, Aug. P.

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## Carrichter, Bartholomaeus

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## Celsus, Aulus C.

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- 1935-1938. *De medicina.* 3 vols. Engl. transl. by W. G. Spencer. Wm. Heinemann, London. First ed. 1549. Various references to medicinal effects and uses of figs. (See index.)

## Chopra, Ram Nath

1933. Indigenous drugs of India, their medical and economic aspects. 655 pp. Art Press, Calcutta. (Ficus carica, p. 490.) An aperient, emollient, used internally in snake bite.

## Compain, Michel

1939. *Guide de l'herboriste et du droguiste avec les remèdes vétérinaires.* (3d ed.) 795 pp. Ed. Compain, Limoges. (Figuier, p. 196.) Composition, properties, uses.

## Condit, Ira J.

1922. A new fig food, rivaling confectioner's art. *Western Confectioner* (Feb.), p. 52. Also in: *Fruitman* (Apr.), p. 8. Fig Brownies for retail at 5 cents; analyses and laxative properties.

## Constantin, Antoine

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## Cowley, Abraham

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## Cox, Ross

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## Cruess, W. V.

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- 1940b. Let's eat more dried fruit. *Pacific Rural Press* 139:422. Process dried figs in water until tender; use with breakfast cereals.
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Culpeper, Nicholas

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Cummings, Richard O.

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Cursach, Juan

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1939. You can stay well. 317 pp. Publ. by the author, Los Angeles. (Fig, p. 288.) Analysis and vitamin content.

Desjacques, and Bondet

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1896. *Indigenous drugs of India*. (2d ed.) Thacker, Spink and Co., Calcutta. 387 pp. (*Ficus carica*, p. 129.) Fresh figs found in all Indian bazaars; seldom employed medicinally.

Dierbach, Johann H.

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## Doggett, Lucy

1908. The fig. Amer. Food Jour. 3(3):20, 21. Source of dried figs, contamination on market, uses.

## Dorvault, François L. M.

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## Dutt, Uday Chand

1877. The materia medica of the Hindus compiled from Sanskrit medical works. 354 pp. Spink and Co., Calcutta. (Ficus carica, p. 291.) In Bengal as Anjir.

## Dymock, William

- 1890-1893. Pharmacographia indica. 3 vols. Kegan Paul, Trench and Co., London. (Ficus carica, 3:342-45.) History, uses, description, chemical composition.

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1939. Pandora's box, or, What to eat and why. 291 pp. Health Educ. Soc., Los Angeles. (Fig, pp. 238-39.) Uses, food value.

## Faust, Hilda

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## Fee, A. L. A.

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## Fernie, W. T.

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1931. Dried fruit vitamins. Western Canner and Packer 23(3):39. Dehydration superior to sundrying in retention of vitamin A of Kadota and Calimyrna.

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Flückiger, F. A.

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French, R. B.

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1925. Diet in health and disease. (6th ed.) 987 pp. W. B. Saunders Co., Philadelphia. (Figs, pp. 148, 149.) Account compiled.

Gachot

1950. La figue. Rev. de la Conserve 1950(3). Cited by P. R. Montagnac 1952, p. 523.

Geoffroy, Estienne F.

1749. A treatise on foreign vegetables, containing an account of such as are now commonly used in the practice of physick. 458 pp. J. Clarke, London. (Figs, pp. 159-63.) Kinds, medicinal uses from Galen and others; recipes for medicines.

Gilg, Ernst F.

1910. Lehrbuch der Pharmakognosie. 384 pp. Julius Springer, Berlin. (Figs, p. 90. Figure 102.) 4th ed. 1927 by E. Gilg, W. Brandt, and P. N. Schürhoff. (Figs, p. 121.)

Gouraud, F. X.

1911. What shall I eat. 379 pp. Rebman Co., New York. (Fig, p. 278.) Analyses fresh and dried; anticeptive quality especially good; figs and dates emollient fruits.

Graumüller, Johann C. F.

- 1813-1819. Handbuch der pharmaceutisch-medizinischen Botanik. 6 vols. Verlag der Schöneschen Buch., Eisenberg. (Ficus carica, 5:343-47.)

Graves, Lulu G., and C. W. Taber

1938. A dictionary of food and nutrition. 423 pp. F. A. Davis Co., Philadelphia. (Figs, p. 128.) Rich in minerals but poor in protein; twice as much vitamin A in Mission as in light-colored varieties.

Green, Mary E.

1902. Food products of the world. (3d ed.) 249 pp. Hotel World, Chicago. (Fig, pp. 227-28, 236.) Statutes of Lycurgus, figs included in food of Spartan men.

Grosourdy, R. de

1864. El médico botánico Criollo. 4 vols. in 2. F. Brachet, Paris. (Higuera, higos de Europa, 3:387.) Listed only as emollient.

Grossheim, A. A.

1943. Work of the Botanical Institute of the Azerbaidjan branch. (In Russian.) Sovetsk. Bot. (Leningrad) 1943(3): 49-52. Abstracted in: Biol. Abs. 20:1971. Fig vitamins.

Guilbert, H. R., and G. H. Hart

1946. California beef production. California Agr. Ext. Serv. Cir. 131:5-157. (Figs, dried, pp. 19, 38.) Have 69% digestible nutrients, 4% digestible protein, and 87% value of barley for stock food.

Hahn, F. V.

1931. Der Vitamingehalt des Obstes. Ztschr. f. Untersuch. der Lebensmtl. 61:369-411, 545-611. Figures 30, 50. Abstracted in: Exp. Sta. Rec. 68:860. (Figs, p. 403.) Contain less than 16 units of vitamin C.

Hall, Alice P., et al.

1953. Amounts of six B-vitamins in fresh and dried figs. Food Res. 18:206-16.

Hare, H. A., et al.

1905. The national standard dispensatory. 1860 pp. Lea Bros. Co., New York. (Fig, p. 644.)

Hariot, Paul

1900. Atlas des plantes médicinales indigènes. 221 pp. Paul Klincksieck, Paris. (Figuier, p. 52. Poor color plate of fruit and leaves.) General description of fruit and its properties.

Heraud, Auguste

1927. Nouveau dictionnaire des plantes médicinales. 653 pp. J.E. Bailliere et Fils, Paris. (Figuier commun, pp. 290-92. Figure 126.) Tree and fruit, harvesting and drying, uses.

Hernandez Mesa, Mauro

1941. Nuestras plantas medicinales. 255 pp. Arturo Zapata, Manizales, Colombia. (Higo, pp. 219-20.) History; uses.

Hewston, Elizabeth M., and Rosemary L. Marsh

1943. Vitamin values of foods in terms of common measures. U. S. Dept. Agr. Misc. Pub. 505:1-29. (Figs, p. 13.) Content given in tabular form.

Hill, H. E.

1938. The ascorbic acid content of some Western Australian fruits (as indicated by titration with phenol-indo-2:6-dichlorophenol). Roy. Soc. West. Austral. Jour. 24:103-6. Cited by Lela E. Booher et al., in U. S. D. A. Cir. 638, p. 92. Vitamin values per 100 grams of edible portions of fig given in table.

Hill, R. G.

1933. A fruit and vegetable buying guide for consumers. U. S. Dept. Agr. Misc. Publ. 167:1-61. (Fig, p. 25.) Fig varieties of California and southern United States.

Hinreiner, Elly

1955. Food quality questions determined by taste test panels and how to ask them. California Fig Inst. Ann. Res. Conf. Proc. 9:20-22. Factors involved in quality.

Hooper, David

1929. On Chinese medicine: Drugs of Chinese pharmacies in Malaya. Straits Settlements Gardens' Bul. 6:1-163. (Ficus carica, pp. 65-66.) Description and local names; used as a drug.

Hutchison, Robert

1911. Food and the principles of dietetics. 615 pp. (2d ed.) William Wood and Co., New York. (Fig, p. 259.) About 50% sugar and 3.5% protein; more nourishing than bread. 8th ed. 1936, by Hutchison and V. H. Mottram. (Figs, pp. 289, 290, 294.)

Jacobs, Morris B.

1944. The chemistry and technology of food and food products. 2 vols. Interscience Publ., New York. (Fig, 1:778, 780; 2:12, 56, 61, 90, 94, 283, 286, 301.) Properties, uses, canning, drying, storage.

Jaffa, M. E.

1896. Investigations of food materials. California Agr. Exp. Sta. Rept. 1894-1895:140-61. (Figs, pp. 155, 159.) Composition, nutritive value compared with that of hay, grain, meals.

1929. Food value of figs. California Ann. Fig Inst. Proc. 13: 42-47. County Agr. Com., Merced. Food value and uses, composition, mineral content, caloric value.

Jaffa, M. E., and L. Anderson

1901. Feeding of farm animals. California Agr. Exp. Sta. Bul. 132:1-54. (Fig, pp. 49, 51, 52, 53, 54.) Value for livestock; results of feeding to brood sow.

Joachimoglu, G., and G. Logaros

1936. Vitamin content of Greek foodstuffs: Vitamins A, D, and B<sub>1</sub> contents of dried figs. (In Greek.) Prakt. Akad. Athenon 11:383. Abstracted in: Chem. Abs. 32:2181. Insignificant amount of vitamin D and no vitamin C.

Kaufman, Esteban, and Hortensia Cortes

1946. Vitamin B<sub>1</sub> content of Cuban fruits. Inform. Med. (Cuba) 10:66-68. Abstracted in: Chem. Abs. 41:1343. Figs included.

Kellogg, J. H.

1921. The new dietetics. What to eat and how. 933 pp. Modern Medicine Publ. Co., Battle Creek. (Fig, pp. 167, 171, 180, 182-3, 201, 308, 310, 334, 339.) Composition and analyses; fig highly laxative on account of high cellulose content.

Kosteletzky, V. F.

- 1831-1836. Allgemeine medizinisch-pharmazeutische Flora. 6 vols. Borrosch und Andre, Prag. (Ficus carica, pp. 406-7.)

Kraemer, Henry

1910. A text-book of botany and pharmacognosy. (4th ed.) 888 pp. J. B. Lippincott Co., Philadelphia. (Fig, pp. 590-91.) Description of the syconium, constituents, allied plants, properties, detection of fig coffee.

Kymer, Gilbert

- (?) *Dietarium de sanitatis custodia*. 14th century medical book, England. Cited by Evelyn Cecil, 1910, p. 62.

Laguna, Andres de

1555. *Pedacio Dioscorides anazarbeo acerca de la materia medicinal y de los venenos mortiferos*. 616 pp. Anvers. Cited by D. M. Colmeiro, 1885.

Lane, D. E.

1934. Nutritive and therapeutic value of figs. *Amer. Jour. Phys. Therapy* 11(Jan.):6-8.

Langworthy, C. F.

1913. Raisins, figs, and other dried fruits and their use. U. S. Dept. Agr. Yearbook 1912:505-22. (Figs, pp. 514-15.) Fig districts of Turkey and California; methods of handling crop; food value.

La Wall, C. H.

1927. Four thousand years of pharmacy. 665 pp. J. B. Lippincott Co., Philadelphia. (Fig, pp. 5, 8.) Drug of Egyptian papyrus, 1552 B. C. Tonic made by compounding figs, plums, grapes, yeast with goose grease.

Leitch, J. Neil

1930. Dietetics in warm climates. 486 pp. Harrison and Sons, London. (Figs, pp. 14, 15, 237, 286, 290.) Diet of Egyptians; analyses and vitamin content.

Liebstein, A. M.

1927. Therapeutic effects of various food articles. *Amer. Med.* 33:33-38. Abstracted in: *Chem. Abs.* 21:2920. Figs included.

Lindley, John

1838. *Flora medica*. 636 pp. Longmans et al., London. (Fig, p. 298.) Roasted and split, figs sometimes used as poultices for boils and maturing tumours; prepared with senna for laxative.

1849. Medical and oeconomical botany. 274 pp. Bradbury and Evans, London. (Ficus carica, p. 78.) Quality and uses.

Lindlahr, Victor H.

1943. How to use fruits as medicine. 24 pp. Jour. Living Publ. Co., New York. (Figs, pp. 15, 16.) Vegetable mucin and pectin give figs laxative qualities.



## Llwyd, Humphrey

1535. The treasury of health conteynyn many profitable medycines gathered out of Hypocrates, Galen and Avycen by one Petrus Hyspanus. Transl. about 1550. Cited by Henry Bradley, 1901. It is good if the fygge blede; the disease Ficus or the piles.

## Losch, Fr.

1903. Kräuterbuch. 209 pp. J. F. Schreiber, München. (Ficus carica, pp. 31-32. Color plate 16, figure 2.)

## Lüring, H. L.

1888. Die über die medicinischen Kenntnisse der alten Aegypter berichtenden Papyri verglichen mit den medicinischen Schriften griechischer und römischer Autoren. 170 pp. Inaug. Diss., Druck von Breitkopf and Hartel, Leipzig. Ficus carica included.

## Lutz, H. F.

1922. Viticulture and brewing in the ancient Orient. 166 pp. Stechert, Leipzig. (Fig and fig wine, pp. 17, 18, 25, 40.) Several references; fig liquor compared to a flame since it burned the throat.

## McLester, James S.

1931. Nutrition and diet in health and disease. (2d ed.) 891 pp. W. B. Saunders Co., Philadelphia. (Figs, pp. 815, 843, 850, 862.) Chemical composition, ash constituents, calories.

## Magers, E. J.

1925. Crude fiber in food. Amer. Dietet. Assoc. Jour. 1:73-77. (Fig, pp. 75, 76.) Included in tabulation of forty items.

## Mansfield, William

1919. Squibbs atlas of the official drugs. 686 pp. E. R. Squibb and Sons, New York. (Fig, p. 501. Illus.) Description, outline of properties.

## Marme, Wilhelm

1886. Lehrbuch der Pharmacognosie des Pflanzen- und Thierreichs. 684 pp. Veit und Co., Leipzig. (Feigen, pp. 286-88, 438, 442.) Short description, anatomy, chemistry, handling the crop, fig coffee.

## Martinez, Maximino

1933. Las plantas medicinales de Mexico. 644 pp. Ed. Botas, Mexico, D. F. (Higuera, p. 542.) Uses.

## Marzell, Heinrich

1921. Neues illustriertes Kräuterbuch. 711 pp. Enklin und Laiblins, Reutlingen. (Feigenbaum, pp. 514-15.) General; uses.

Matta, Alfredo A. da

1913. Flora médica Braziliense. 318 pp. Imprensa Official, Manaos. (Figueira, p. 111.) General characters; uses.

Mattioli, Pierandrea

1561. Les commentaires des simples de Pedacius Dioscoride Anazarbeen. Gabriel Cotier, Lyon. (Figuier, pp. 113-14.)  
Reference in: Bradley Bibliog. 1:279.

1645. I discorsi Dioscoride. 850 pp. Presso Marco Ginammi, Venetia. (Dei fichi, p. 192. 1 illus.)

1678. Neues vollkommenes Krautbuch. 792 pp. J. J. Decker, Basel. Ed. 1562. 575 pp. Prag. (Feigenbaum, pp. 149-52.) General account of tree, fruit, leaves, caprification, uses.

Mayerhofer, E., and C. Pirquet

1926. Lexikon der Ernährungskunde. 1206 pp. J. Springer, Wien. (Feigen, pp. 258-60.) Properties, districts and products, uses, analyses.

Mertes, Peter

1936. 500 Heilpflanzen. 181 pp. Otto Maier, Ravensburg. (Ficus carica, p. 67.) Uses.

Meyer, Miss H. H.

1941. The nutritive value and use of dried fruit. Farming in So. Africa 16(178):37-39. (Fig, pp. 37, 38.) Constituents; recipe for steamed fig pudding.

Meyer, Joseph E.

- 1934a. The herbalist. 399 pp. Indiana Bot. Gardens, Hammond, Indiana. (Fig tree, p. 90. 1 illus.)

- 1934b. Nature's remedies. 200 pp. Indiana Bot. Gardens, Hammond, Indiana. (Fig tree, p. 133.) Laxative and demulcent.

Michault, Joannis B.

1734. Icones simplicium, quorum in officinis usus habetur. (Figuier, Tomus 1, small figure of leaves and fruit; text p. 345.) Short.

Miller, Carey D.

1935. Vitamin content of some Hawaiian fruits. In: Hawaii Agr. Exp. Sta. Rept. 1934:29. Figs a fair or poor source of all the vitamins tested.

Miller, Carey D., K. Bazore, and R. C. Robbins

1936. Some fruits of Hawaii: their composition, nutritive value, and use. *Hawaii Agr. Exp. Sta. Bul.* 77:1-133. Figures 1-16. (Fig, pp. 27-29.) History, nutritive value, uses, recipes. See also: *Hawaii Agr. Exp. Sta. Bul.* 96: 1-129. 1945. (Fig, pp. 32-34, 118, 122, 127, 128.)

Miller, Carey D., and Helen Y. Lind

1942. Food for health in Hawaii. *Hawaii Agr. Exp. Sta. Bul.* 88: 1-84. (Figs, pp. 12, 34, 64.) Included in sample menus and diets.

Miller, Carey D., Lucille Louis, and K. Yanazawa

1947. Vitamin values of foods in Hawaii. *Hawaii Agr. Exp. Sta. Tech. Bul.* 6:1-56. (Figs, Brown Turkey, pp. 17, 45.) Contains 80 Internatl. units vitamin A, 30 micrograms thiamine (vitamin B<sub>1</sub>).

Millsbaugh, C. F.

1887. American medicinal plants. 2 vols. Paged continuously. Boericke and Tafel, New York. (*Ficus carica*, p. 152.) Highly esteemed as a laxative but also useful, when roasted, as an application to hasten suppuration of pus.

Monin, Ernest

- (?) *L'hygiène de l'estomac* (Guide pratique de l'alimentation). (New ed., no date.) 432 pp. Octave Doin, Paris. (Figures, pp. 177, 179.) Fig cure; laxative.

Morgan, Agnes F.

1932. The unusual nutritive value of figs. *Pacific Rural Press* 123:6. Also in: *California Fruit News* 86(2302):9. An excellent account; mineral content, use of figs in school lunches.
1935. Nutritive value of dried fruits. *Amer. Jour. Pub. Health* 25:328-35. Figures 1-5. Figs, not rich in either vitamin A or C, should be unsulfured; Mission figs, however, contain enough vitamin A to merit dehydration.
1940. The health value of fruits. *Pacific Rural Press* 139:443. Figs mentioned.
1941. A nutritive index of fruits. *Fruit Prod. Jour.* 21:75-77. Index of figs 11 as compared to dried apricot 50, raisins 8, and prunes 20.
1952. Vitamin content of figs. *California Fig Inst. Ann. Res. Conf. Proc.* 6:33-34.

- Morgan, Agnes F., Anna Field, L. Kimmel, and F. F. Nichols  
1935. The vitamin content of figs. *Jour. Nutr.* 9:383-94. Four varieties of three different crop years; content of vitamins A, C, B(B<sub>1</sub>) and G.
- Morgan, Agnes F., Anna Field, and P. F. Nichols  
1932. Recent studies of the vitamin A and C content of dried apricots and figs. *Fruit Products Jour.* 11:304. Very little of vitamin C retained; vitamin A present in fair amount in fresh figs; sulfuring and dehydrating helped to preserve vitamin A.
- Morgan, Agnes F., and Alice P. Hall  
1953. Vitamin content of figs. *California Fig Inst. Ann. Res. Conf. Proc.* 7:34.
- Morgan, Agnes F., and G. D. Hatfield  
1926. The effect of various supplementary lunches on the plasma carbon dioxide capacity of children. *Amer. Jour. Diseases Children* 32:655-66. Abstracted in: *Exp. Sta. Rec.* 57:689; *Chem. Abs.* 22:2395. One child receiving pulled figs as supplementary lunch, made more than three times the expected gain in weight and showed an increase of 5.5% in carbon dioxide combining power of the plasma at the end of 43 days.
- Morgan, Agnes F., G. D. Hatfield, and M. A. Tanner  
1926. A comparison of the effects of supplementary feeding of fruits and milk on the growth of children. *Amer. Jour. Diseases Children* 32:839-49. Abstracted in: *Exp. Sta. Rec.* 56:693. Milk, orange, and figs used; average gains highest for the orange group, followed in decreasing order by the fig, milk, and control groups.
- Mrak, E. M.  
1941. Retention of vitamins by dried fruits and vegetables. *Fruit Prod. Jour.* 21:13-15. (Figs, pp. 13, 15.) Contain some vitamin C fresh but none when dried; sulfuring favors retention of vitamin A in all but Adriatic.
- Mueller, Ferdinand  
1860. *Das grosse illustrierte Krautbuch*. 824 pp. F. Ebner, Ulm. (Feigenbaum, pp. 202, 204. 1 figure.) General description, uses.
- Müller, Carl A. E.  
1890. *Medicinal flora*. 582 pp. J. Springer, Berlin. (*Ficus*, pp. 264-68.)
- Murray, Io. Andrea  
1776-1792. *Apparatus medicamum*. 6 vols. (*Ficus*, 4:578-86; *Ficus carica*, p. 586.) Cited by Wm. Woodville 4:716. 1832.

Murray, James A.

1881. The plants and drugs of Sind. 219 pp. Richardson and Co., London. (Ficus carica, p. 32.) Fruits of both F. carica and F. virgata eaten as dessert and much esteemed as wholesome depuratives; laxatives both fresh and dried.

Nadkarni, K. M.

1927. Indian materia medica. 1142 pp. K. M. Nadkarni, Bombay. (Ficus carica, pp. 369-70.) Botanical description.

Nazir, T.

- (?) Cited by F. Goldmann, 1911, p. 39. (Fig, 2:284, l. 24 et seq.) Nutrition of fig cakes.

Nelson, Alexander

1951. Medical botany. 544 pp. E. and S. Livingstone, Edinburgh. (Figs, pp. 294-97.) Vitamins and chemical components.

Olliver, Mamie

1943. Ascorbic acid values of fruits and vegetables for dietary surveys. Chem. and Indus. (London) 62:146-8. Dried figs have a negligible antiscorbutic value.

O'Shaughnessy, W. B.

1844. The Bengal pharmacopoeia and general conspectus of medicinal plants. 453 pp. Bishop's College Press, Calcutta. (Ficus carica, p. 205.)

Osol, Arthur, and George E. Farrar

1947. The dispensatory of the United States of America. (24th ed.) 1928 pp. J. B. Lippincott Co., Philadelphia. (Fig, pp. 1454-55.) Botany, caprification, analyses, medicinal properties.

Pattee, Alida F.

1939. Practical dietetics. (22d ed.) 868 pp. G. P. Putnam's Sons, New York. (Fig recipes, p. 695; food value, pp. 781, 797, 804, 824.)

Pavy, F. W.

1881. A treatise on food and dietetics. (2d ed.) 402 pp. Wm. Wood and Co., New York. (Fig, pp. 204-5.) Short, general.

Pereira, Jonathan

1843. A treatise on food and diet. 320 pp. Fowlers and Wells, New York. (Syconus, fig, p. 175.) Short, general; composition.

Perez Arbelaez, Enrique

1937. Plantas medicinales y venenosas de Colombia. 295 pp. Ed. Cromos, Bogota. (Ficus carica, p. 103, Figure 25.) Medicinal properties.



Perrot, E., and P. Hurrier

1907. Matière médicale et pharmacopée Sino-Annamites. Vigot Frères, Paris. (Ficus carica, p. 102.) Fruits reputed to be diuretic and laxative.

Pharmaceutical Society of Great Britain

1934. British pharmaceutical codex; an imperial dispensatory for the use of medical practitioners and pharmacists. Pharmaceutical Press, London. 1768 pp. (Figs, pp. 466-67.) Natural, pulled and pressed figs; dextrose the chief constituent; action and uses; preparations.

Pittman, G., and W. V. Cruess

1928. The place of grapes in the diet. Blue Anchor 5(10):7. Oct. Fig compared as to calories.

Planchon, F. Gustave, and E. Collin

- 1895-1896. Les drogues simples d'origine végétale. 2 vols. O. Doin, Paris. (Ficus carica, 1:287-90.)

Poolé, C. G.

1928. Coyote not strictly carnivorous. California Dept. Agr. Mo. Bul. 17:26. Figs eaten with avidity by coyotes.

Preuss, Julius

1902. Biblisch-talmudische Pathologie und Therapie. Ztschr. f. Klin. Med. 45:457-89. (Fig, pp. 475, 482, 485.) Food and medicinal uses.

1911. Biblisch-talmudische Medizin. Beiträge zur Geschichte der Heilkunde und der Kultur überhaupt. 735 pp. S. Karger, Berlin. (Feigen, p. 394.)

Pyke, M. A.

1939. The distribution of vitamin B<sub>1</sub> in foods as determined by chemical analysis. Soc. Chem. Indus. Jour. Trans. and Commun. 58:338-40. Cited by Lela E. Booher, et al., in U. S. D. A. Cir. 638, p. 93.

Ranganathan, S.

1935. The vitamin C content of some Indian foodstuffs. Indian Jour. Med. Res. 23:239-52. Abstracted in: Exp. Sta. Rec. 74:886-87. Trace of vitamin C in figs.

Read, Bernard E.

1936. Chinese medicinal plants from the Pen Tsao Kang Mu. (3d ed.) 389 pp. Peking Nat. History Bulletin, Peiping. (Ficus carica, p. 193.)

Reid, Hugo

1832. Outlines of medical botany. (2d ed.) 1839. 425 pp. MacLachlan, Stewart and Co., Edinburgh. (Fig, p. 279.)

## Reinach, Theodore

1890. *Mithridates Eupator, Roi de Pont*. 483 pp. Libr. de Firmin-Didot, Paris. (Figs, p. 285.) Mithridates says "figges are one of three ingredients in his antidote against both poyson and plague," according to Parkinson, 1640.

## Remington, Joseph P.

1917. *The practice of pharmacy*. (6th ed.) Assisted by E. F. Cook. 1987 pp. J. B. Lippincott Co., Philadelphia. (Syrup of figs, p. 342; fig, pp. 1293, 1430.) Recipe for syrup; description of fruit, preparations, uses.

## Remington, Joseph P., et al.

1918. *The dispensatory of the United States of America*. (20th ed.) 2010 pp. J. B. Lippincott Co., Philadelphia. (Fig, p. 1394.) Caprification, analyses, sirup of figs prepared from figs, fluid extract of senna, aromatic fluid glycerate of cascara sagrada, oil of fennel, spirit of peppermint, sugar, and water.

## Rengade, Doctor

1887. *Las plantas que curan, y que matan*. 228 pp. Montaner y Simon, Barcelona. (Higuera, pp. 151-2.) General account; medicinal properties.

## Reutter, L.

1923. *Traité de matière médicale*. 900 pp. J. B. Bailliere et Fils, Paris. (Figure, pp. 344-46. Figures 136, 137.) Botany, geography, culture, harvesting, commercial kinds, microscopy, analysis, properties, uses.

## Rice, F. B., and Hazel E. Munsell

1931. The approximate units of vitamin A and vitamin C in foods. New York Assoc. for improving the condition of the poor, pp. 1-5. Ten units of vitamin A per 100 calories per ounce of figs.

## Rose, Mary S.

1927. *The foundations of nutrition*. 501 pp. The Macmillan Co., New York. (Figs, pp. 338, 355, 468, 473.) Portions to serve, luncheon with peanuts and figs, calories.
1940. *Feeding the family*. (4th ed.) 421 pp. The Macmillan Co., New York. (Figs, pp. 333, 399, 401.) Nutritive and fuel value in tabular form.

## Rosenberg Bros.

1929. Fig a food fruit. *California Fruit News* 79(2117):1. Advertisement; quotes from R. Hutchison, 1911, on food value.

1932. Science gets new light on the value of the dried fig. California Fruit News 85:1. (Jan. 23.) Advertisement; reports studies of Dr. Agnes F. Morgan.

Rusby, Henry H.

1923. *Ficus*. In: A reference handbook of the medical sciences. Vol. 4:401. Wm. Wood and Co., New York. Fig can scarcely be regarded as a medicinal substance though nutrient and slightly laxative.

Rusby, Henry H., A. R. Bliss, and C. W. Ballard

1930. The properties and uses of drugs. 823 pp. P. Blakiston's Son and Co., Philadelphia. (Fig, p. 301.) Properties, preparations such as fig sirup.

Saldova, A. K.

1938. The biochemical value of fig fruit. Soviet Subtropics 10(50):48-49. (Russian with English summary.) Study of fresh and dried figs in Azerbaijan; nutritive value; varieties in order of sugar content.

Sale, George

1825. The Koran, commonly called the Alcoran of Mohammed. 2 vols. Fr. for Thomas Tegg, London. (The fig, chapter XCV, p. 495.) Uses and virtues. Later ed. 608 pp. F. Warne, London. (Fig, p. 584.) "By the fig, and the olive. . . verily we created man of a most excellent fabric." See footnote for explanation.

Salmon, William

1695. Synopsis medicinae, or, a compendium of the theory and practice of physick. (3d ed.) In seven books. 1064 pp. J. Dawks, London. "Apply a cataplasm of figgs and raisons stoned."

Santangelo, Ettore

1932. Dizionario pratico degli alimenti. 408 pp. Ulrico Hoepli, Milano. (Fico, p. 106.) Analyses fresh and dried, uses.

Sayre, Lucius E.

1906. A manual of organic materia medica and pharmacognosy. (3d ed.) 692 pp. P. Blakiston's Son and Co., Philadelphia. (Ficus carica, pp. 400-1.) A drug or medicinal product; constituents; laxative action due mainly to the indigestibility of seeds and skin. 1917 ed. (Fig, p. 150.)

Saywell, L. G.

1932. The effect of figs and small amounts of raisins on urinary acidity. Jour. Nutr. 5:519-25. For considerable quantities of grape and fig products, body capable of completely oxidizing the organic acids.

Schelenz, Hermann

1904. *Geschichte der Pharmazie*. 934 pp. Julius Springer, Berlin. (Feigen, pp. 10, 14, 28, 37, 101, 106, 139, 326, 764, 785.) Use by Semites, Egyptians, Greeks, Romans; fig latex.

Schreber, I. O. D.

1772. *Materia medica per regna tria naturae*. 266 pp. Wolfgang Waltherum, Lipsiae. (*Ficus carica*, p. 223.) Pharmaceutical, "Caricae pingues".

Scribonius Largus

1529. *Scribonii Largi de compositionibus medicamentorum liber unus, antehae nusquam excusus*: Joanne Ruellio doctore medico castigatore. Folio 30. Chr. Wechel, Parisiis. Ed. 1786 by Joannes M. Bernhold. A. Koenig, Argentorati. (Fig, p. 66.)

Smith, Edward

1884. *Foods*. 485 pp. D. Appleton and Co., New York. (Fig, p. 217.) Brief account.

Sommer, Hugo H.

1932. *The theory and practice of ice cream making*. 611 pp. Publ. by the author, Madison, Wisconsin. (Figs, pp. 474, 549.) Use in ice cream.

Soubeiran, J. Leon, and Dabry de Thiersant

1874. *La matiere medicale chez les Chinois*. 319 pp. G. Masson, Paris. (*Ficus carica*, p. 141.) Fruits nutritive and laxative; leaves applied for hemorrhoids.

Soucca, T.

- (?) Cited by F. Goldmann, 1911, p. 11. (Fig, 2:193, 1. 20.) Figs and raisins eaten at the feast of Tabernacles.

Stuart, G. A.

1911. *Chinese materia medica*. 558 pp. Amer. Presby. Mission Press, Shanghai. (*Ficus carica*, p. 174.) Identity of plant in the Pentsao discussed; leaves recommended for piles.

Stuhr, Ernst T.

1933. *Manual of Pacific Coast drug plants*. 189 pp. Science Press Pr. Co., Lancaster. (Fig, p. 93.) Nutritive, demulcent, laxative, emollient.

Thompson, Edythe T.

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Thoms, Hermann

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Thorndike, Lynn

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Thornton, Robert J.

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Thursby, Isabelle S.

1932. The fig, a prize package of food and medicine. Florida Ext. Serv. Cir. 24:1-4. Food value, uses, recipes.

Tibbles, William

1912. Foods, their origin, composition and manufacture. 950 pp. Bailliere, Tindall and Cox, London. (Fig, pp. 596, 654, 803.) Caprification, drying, composition, food value, fig coffee.

1914. Dietetics or food in health and disease. 627 pp. Lea and Febiger, Philadelphia. (Fig, pp. 19, 203, 206.) Composition fresh, dried, and stewed; use as food.

Trease, George E.

1934. A text-book of pharmacognosy. 653 pp. Bailliere, Tindall and Cox, London. (Figs, p. 263,) Source, characters, constituents.

Tressler, Donald K.

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1953. My heart lies south; the story of my Mexican marriage. 24 pp. Thomas Crowell Co., New York. (Fig, pp. 67, 111.) Tea made of leaves for nerves and as a mild soporific.

## Ullmann, Egon V.

1934. Diet in sinus infections and colds. 166 pp. The Macmillan Co., New York. (Figs, p. 64.) High alkaline content; mild laxative effect; used lately in treatment of gall-stone patients.

## Valles, Francisco de

1588. De iis quae scripta sunt physice in libris sacris, sive de sacra philosophia, liber singularis, cui, propter argumenti similitudinem. 693 pp. Franciscum le Fevre, Lugduni. (Medicinal use of figs, p. 316.)

## Verley-Leclerc, Roger

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## Wall, Otto A.

1917. Handbook of pharmacognosy. (4th ed.) 629 pp. C. V. Mosby Co., St. Louis. (Fig, pp. 418-19. Figure 356.) Description of fruit, flowers, uses.

## Warner, Robert M.

1948. Feeding value of dried figs. 13 pp. Research Bul., California Fig Institute, Fresno. Palatibility good for all types of livestock; food value, feeding mixtures, and preparation discussed.
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Watson, Ernest

1923. The principal articles of Chinese commerce (import and export). Statistical Department of the Inspectorate General of Customs, Shanghai. 630 pp. (Ficus carica, pp. 396-97.) Chinese figs compared with those of Turkey and Persia; use as food and medicine.

Wiley, H. W.

1917. Foods and their adulteration. (3d ed.) 646 pp. P. Blakiston's Son and Co., Philadelphia. (Fig, pp. 349-50. Color pl. and figure 51.) Food value, uses, composition.

Wilson, H. E. C., and G. K. Roy

1938. The flavine and vitamin-B6 (anti-dermatitis) content of Indian foodstuffs. Indian Jour. Med. Res. 25:879-92. Abstracted in: Chem. Abs. 32:9322. Figs relatively poor sources.

Wood, George B.

1926. The dispensatory of the United States of America. (21st ed.) 1792 pp. J. B. Lippincott Co., Philadelphia. (Ficus carica, pp. 487-88.) Description, physical properties, uses.

Woolley, Samuel W., and G. P. Forrester

- 1929-1934. Pharmaceutical formulas. 2 vols. The Chemist and Druggist, London. (Sirup of figs, 1:561.) Preparation, constituents.

Wren, R. C.

1915. Potters cyclopedia of botanical drugs and preparations. (2d ed.) 339 pp. Potter and Clarke, London. (Fig, pp. 104-5.) Uses; distinctive characters.

Yeary, E. A.

1949. Substandard figs in the livestock diet. California Fig Inst. Ann. Res. Conf. Proc. 3:8. Not more than 1/3 of the ration for swine; a very desirable and well-liked feed.

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## VARIETIES, GENERAL

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1846. Notes on the "Black fig" of the Azores; culture of the fig under glass. Horticulturist 1(July):26. A black fig imported from Azores in 1836.

Anonymous

1828. The Brunswick fig. Pomol. Mag. of London 1:48. Color plate.
1852. Brown Turkey fig. Gard. Chron. 12:325, 357. Tree at Worthing trained in form of a wheel, its branches forming 12 spokes.
1862. Castle Kennedy. Jour. Hort. 5(n.s.):89, 127. (By a constant reader.) Comments on identity and quality.
1864. White Ischia fig. Jour. Hort. 7(n.s.):439. Singleton or White Ischia. Dropping of first crop very characteristic.
1865. Suffren de Salerne. Revue Hort. 1865:31, 132. Unpublished monograph on varieties.
1866. *Ficus carica*, var. *Kennedyensis*. 1' Illustration Hort. 13. Pl. 476, in color. Six pages of unnumbered text.
1871. Figs, discussion of varieties. Amer. Pomol. Soc. Proc. 13:70.
1876. Fig varieties. Georgia State Hort. Soc. Proc. 1:31. Chart with notes on 15 varieties.
1878. Fig, Col di Signora Bianca. Florist and Pomologist (Imp. ser.) 11:121. Color plate. Description from Robert Hogg, Fruit Manual, 1866.
1886. Catalogue of fruits. Georgia State Hort. Soc. Proc. 11: 56-69. (Figs, p. 68.) Also in: Georgia Hort. Soc. Proc. 20; Georgia Dept. Agr. Publ. 22:352-70. 1897. (Fig, p. 367.)
1892. Report of the Fruit Committee of the Royal Hort. Society, May 17. Garden 41:478. Fig Pingo de Mel described as a large green variety with very thin skin and rich flavor; Brown Turkey also mentioned.

1907. Figue Osborn Prolific. Figue de Dalmatia. Pomol. Franç. 1907:38.
1908. Important American fruits: The Celeste fig. Amer. Fruit and Nut Jour. 5(87):8. (Probably by H. H. Hume.)
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- 1915a. Fig varieties recommended for planting in Georgia. Georgia State Hort. Soc. Proc. 1951. In: Georgia State College Agr. Bul. 89:147. List first published in 1876; appeared annually with little change for 20 years or more.
- 1915b. A seedless fig. Pacific Rural Press 90:267.
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- 1926-1927. New Thumb Print Products. Black Mission figs. 2 pp. Whole Grain Wheat Co., Chicago.
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- 1948a. King fig problems. California Farmer 189:453. Second crop needs caprification.
- 1948b. Zesde beschrijvende rassenlyst voor fruit, 1948. 148 pp. Com. voor de Ras. voor fruit. Gravenhage. Abstracted in: Plant Br. Abs. 19:673.
- 1949a. New seedling fig. Fruit World and Market Grower 50(6):16. Preston Prolific; figs large, juicy and pleasant in flavor.
- 1949b. Promising new fig. Fruit World (Melbourne) 50(7):7. Abstracted in: Hort. Abs. 19:350. Preston Prolific; origin, description, comments of I. J. Condit in letter.
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1864. White Ischia fig. Jour. Hort. (n.s.) 7:511. A stray specimen of first crop; does same in Italy, its native land.

## Barron, A. F.

1867. New or little known fruits. Gard. Chron. 1867:1192. 1 figure. Grosse Verte fig.

1868a. Bourjassotte Grise fig. Gard. Chron. 28:1260. 1 illus.

1868b. Grosse Verte fig. Florist and Pomol. (3d ser.) 1:5. 1 illus.

1868c. De la Madeleine fig. Florist and Pomol. (3d ser.) 1:179-81. 1 illus.

1868d. A selection of choice figs. Florist and Pomol. (3d ser.) 1:211-13. Notes on size, color, flavor, hardness, fruitfulness, season.

1869a. Fig Col di Signora Blanca Panachée. Florist and Pomol. (3d ser.) 2:145. Color plate.

1869b. On some new fruits and vegetables of 1868. Florist and Pomol. (3d ser.) 2:49-51. (Figs, p. 50.)

1870. Fig Grosse Monstrueuse de Lipari. Florist and Pomol. (3d ser.) 3:128-29. 1 illus.

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Ten varieties offered at 25 cents per tree.



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Berger, Mrs. Joe

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Bobone, Alvaro L. A.

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Brotherston, R. P.

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Budd, J. L., and N. E. Hansen

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Burbank, Luther

1885. Price list of fruit, nut, and ornamental trees. 16 pp. Santa Rosa, California. (Foundling fig, p. 10.)

1887. Catalog of fruit and shade trees, ornamental plants and roses. 24 pp. Santa Rosa, California. (Hardy Japan fig, p. 10.)
- California Nursery Co.
1902. Descriptive catalogue of fruit trees, No. 1. 48 pp. California Nursery Co., Niles. (Figs, pp. 29-31.) See also later catalogues.
- Carbou, J. B.
- 1865a. Figue Blanche à Peau Verte. *Revue Hort.* 36:31. Color pl.
- 1865b. La figue Gourreau Noir. *Revue Hort.* 36:131. Color pl.
- Carriere, E. A.
1881. Figuier Osborn Prolific. *Revue Hort.* 53:68. Figure 21.
1884. Influence du milieu à propos du figuier Osborn Prolific. *Revue Hort.* 56:61.
- Cheffins, A.
1905. Pingo de Mel fig tree. *Garden* 67:274. Grown under glass.
- Clark, John
1877. Figs, Negro Largo and Lambton seedling. *Florist and Pomol.* (3d ser.) 10:32.
1883. Brown Turkey fig at Penrhyn Castle. *Gard. Chron.* (n.s.) 20:405. Tree covered wall 20 yards long, 14 feet high, literally crowded with fruit.
- Close, C. P.
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- 1920a. Varieties. I. Smyrna fig. *Assoc. Grower* 1(6):11, 12. 1 illus.
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- 1921c. Miscellaneous fig varieties. Assoc. Grower 2(4):13; (5):26. Several described.
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- 1921e. Variety tests of figs. Coop. Californian, Sept. 24.
- 1922a. The Brunswick fig. California Cult. 59:307. Frontispiece shows Brunswick and Brown Turkey as distinct varieties; comparisons.
- 1922b. Mission figs win new favor. Assoc. Grower 3(3):20.
- 1922c. Stanford Smyrna fig. Fresno Republ., Sept. 17. Also in: Assoc. Grower 4(3):6, 20.
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1904. A prolific fig tree. Gard. Chron. (3d ser.) 35:102. Re-culver variety.
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Gibbs, Oliver

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Guillochon, L.

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Henslow, George

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Herincq, F.

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Cottage Gardener Office, London. 1865, p. 32, Lucrezia  
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Grosse Verte noted; 1869, pp. 63-65, Col di Signora  
Blanca, Panachée and Negro Largo, latter with illustra-  
tion; 1871, pp. 59-60, notes of Dr. Hogg's Black (with  
illus.), Royal Vineyard, Grosse Monstreuse de Lipari  
(with illus.); 1874, p. 99, list of select varieties for  
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Great Britain. (3d ed.) 414 pp. Jour. Hort. and Cottage  
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I., W.

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K.

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Kelsey, F. W.

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L., J.

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Lee, J. G.

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Lelong, B. M.

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Lucas, Ed.

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Massey, W. F.

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Mathieu, Carl

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1871. Bourjassotte Grisé fig. Florist and Pomol. (3d ser.) 4: 31-32, 1 illus.  
1872. Negro Largo fig. Florist and Pomol. (3d ser.) 5:145. Color plate.  
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Riviere, Benoit

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1919. Figs for canning. Rural World, April 12. Kadota recommended.

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List and brief description of 18 varieties.

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1898. Figs at the Stations. California Agr. Exp. Sta. Rept. 1895-1896, 1896-1897:317, 335, 361, 372.

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Varieties at Jackson and Tulare.

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1891. Varieties of figs. Georgia Agr. Exp. Sta. Bul. 11:43. Six French varieties listed.

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Stubbs, W. C.

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## Swingle, W. T.

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1901. Une nouvelle figue à sécher. Isly. Algér. et Tunisie  
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1860. Fig varieties. Golden Gate Nursery, San Francisco.  
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Woodard, Otis

1928. Fig variety trials. Georgia Coastal Plain Exp. Sta. Bul. 9 (8th Ann. Rept.):58. Nine varieties planted in 1922; Celeste best producer.
1929. Fig variety trials. Georgia Coastal Plain Exp. Sta. Bul. 11 (9th Ann. Rept.):66, Kadota excellent quality but subject to winter injury. See also: Bul. 12(10th Ann. Rept.):49; 1930. Bul. 16:72-73; 1931. Bul. 19:83-84; 1932. Bul. 21:84; 1933. Bul. 24:88-89; 1934. Bul. 25:93; 1935. Bul. 26:87; 1936. Bul. 28:100; 1937. Bul. 29:112; 1938. Bul. 30:108; 1939. Bul. 31:113; 1940. Bul. 32:107; table 74, 1941.

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Wythes, G.

- 1890a. Figs in pots for early fruiting. Garden 38:430. St. John and Pingo de Mel listed; six others described.
- 1890b. New fig St. John. Gard. Chron. (3d ser.) 7:719.
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1894. Good early figs. Garden 45:213. Culture; varieties, Brown Turkey, St. John's, Pingo de Mel and Bourjassotte Grisé.
1895. Early figs in pots. Gard. Chron. (3d ser.) 18:500. Culture and varieties.
- 1900a. The Brown Turkey fig. Garden 58:130. 1 illus. Fruits grown by Mr. Norman, Hatfield House Gardens and shown at recent meeting of the Royal Hort. Society. No variety equals Brown Turkey in usefulness.
- 1900b. Early figs at Gunnersbury House. Gard. Chron. (n.s.) 27:132. Notes on three varieties.
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## VARIETY DOTTATO (KADOTA)

## Anonymous

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1906. The Semi-tropic Nursery. Rural Calif. 29(2):85. Kadota  
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1926. Immense Kadota fig production starts. Western Canner and  
Packer 18(Aug.):19. J. L. Craig's Calif. Plantation  
Cannery.
1927. California fig industry given boost. Western Canner and  
Packer 19(June):9, 12. Mor-Pak Preserving Corp., Stockton.
1929. Kadota Fig Farms. Arizona Producer 8(16):5. At Casa Grande.
1955. Easy fig picking. California Farmer 202:570. Illus. Ac-  
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Ivanhoe.

## Barnson, S.

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## Beckwith, L. C.

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Olive Jour. 4(8):8.
1921. The Kadota fig from a marketing standpoint. Fig and Olive  
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- 1922a. Future of the Kadota fig. Fresno Republ., Dec. 3.
- 1922b. Outline of situation with regard to Kadota figs.  
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## Beckwith, N. E.

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1922. Over enthusiasm bad for figs. Fresno Republ., Oct. 19.

1925. Status of the Kadota fig industry. Fresno Republ., Jan. 15.
1926. Beckwith talks Kadotas. Pacific Rural Press 111:138.
- Beckwith, Ruth E.  
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1921. Description of the Kadota fig and its cultural requirements. Fig and Olive Jour. 5(10):2.
- Braunton, Ernest  
1927. Kadotas not Kadotas. California Cult. 69:287.
- Brisbane, Arthur  
1927. Fig trees interesting. Los Angeles Evening Herald, April 29.
- Butler, W. R.  
1923. Beckwith grows, cans, and sells Kadota figs. Los Angeles Sunday Examiner, Orchard and Farm Section, May 6.
- Casella, Domenico  
1952. La voce Dottato. 1'Ital. Agr. Ann. 89:601-4. 2 illus.  
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- Clark, W. Sam  
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- 1917b. The Kadota fig in the San Joaquin Valley. California Fig Inst. Proc. 1:76-80.
- 1918a. The Kadota fig. 6 pp. Publ. by the author, Sultana.  
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- 1918b. Why I prefer the Kadota fig. Fig and Olive Jour. 3(1):11, 12. 1 illus.
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- 1919b. The prospects of the Kadota fig. Fig and Olive Jour. 3(10):9, 10, 11.
- 1920a. The Kadota fig. 44 pp. Illus. Fig and Olive Jour., Los Angeles. General account.
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Condit, Ira J.

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11.

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Donaldson, M. V.

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Ewing, D. M.

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McConnell, C. L.

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Newman, R.

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Alfaro Cardoso, J. Garde

1944. Contribuicao para o estudo das ferrugens das plantas em Moçambique. Moçambique Doc. Trimest. 38:51-58. 2 color pls. Abstracted in: Biol. Abs. 21:2047. Kuehneola fici attacking fig.

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1922a. Anthracnose on figs. Florida Grower 26(2):6, 7. Attacks both fruit and foliage; symptoms and effects; controlled by bordeaux spray.

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Ciccarone, A.

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- 1921b. Why our fig trees are dying. Farm Bur. Rev., pp. 15, 29. Stockton. Due to neglect, high water table, hard pan and plowpan, nematodes, crown gall.



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- 1924a. The fig situation; diseases. Fresno Republ., Sept. 21.
- 1924b. Trying to save waste in figs. Pacific Rural Press 108:336. Losses due to diseases heavy; variety resistance, control.
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Covas, L.

1940. La rouille du figuier. I. Rev. Agr. de l'Afrique du Nord 38:392-93.

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Currie, J. H.

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1923. Botrytis diseases in Washington. Phytopathology 13:509. Fig canker, mention only.

Davey, A. E., and R. E. Smith

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1948. Relação preliminar de doenças encontradas em plantas e insectos. 84 pp. Colon de Moçambique. Abstracted in: *Rev. Appl. Mycol.* 29:89. Kuehneola fici on fig.

De Ong, E. R.

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De Sousa da Camara, E., et al.

1939. Uredales aliquot Lusitaniae. I. *Agron. Lusitana* 1:410-34. Abstracted in: *Rev. Appl. Mycol.* 20:136. Kuehneola fici on figs.

Doidge, E. M.

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Dowson, W. J.

1914. Fig rust. *Brit. E. Africa Dept. Agr. Ann. Rept.* 1913-14: 118-21.

Drummond, O. A.

1941. Seca dos galhos da figueira. *Ceres* 3:162-64. Figures 1-3. Fig canker caused by Phomopsis cinerescens; no previous reference to disease in America.

Dunlap, A. A.

1941. Plant diseases in Texas and their control. *Texas Agr. Exp. Sta. Cir.* 91:1-71. (Fig, pp. 17-18.) Rust, leaf spots, cankers, die back. See also: *Cir.* 124:1-74. 4th rev. of *Cir.* 91. (Fig, p. 19.) Rust, cankers, blight, souring, cotton root rot, root knot.

Earle, F. S.

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Eaton, F. M.

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Edgerton, C. W.

1909. The perfect stage of the cotton anthracnose. Mycologia 1:115-19. (Fig, p. 116. Figure 1.) Ascospores on fig for comparison.
- 1911a. Diseases of the fig tree and fruit. Louisiana Agr. Exp. Sta. Bul. 126:1-20. Pls. 1-8. Anthracnose, canker, limb blight, soft rot, rust, leaf spot.
- 1911b. Two new fig diseases. Phytopathology 1:12-17. Pl. 1, figure 1. Canker, Tubercularia fici; limb blight, Corticium laetum.

Edson, H. A., Paul R. Miller, and Jessie Wood

1935. Diseases of plants in the United States in 1934. Plant Dis. Rep. Suppl. 90:1-135. (Fig, p. 57.) Corticium koleroga and C. salmonicolor, rust, anthracnose.

Edson, H. A., and Jessie Wood

1936. Diseases of plants in the United States in 1935. Plant Dis. Rep. Suppl. 96:1-269. (Fig, p. 163.) Same as above, plus Physopella fici, Tubercularia fici, root knot, mosaic in California.
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Elliott, Charlotte

1930. Manual of bacterial plant pathogens. 349 pp. Williams and Wilkins Co., Baltimore. (Bacterium fici, p. 130.) Causes dark spot on leaves, and sudden wilting of new growth in Italy.

English, W. H.

1952. Pruning and spraying experiments for phomopsis canker. California Fig Inst. Ann. Res. Conf. Proc. 6:16-19.
- 1953a. Further work on phomopsis canker. California Fig Inst. Ann. Res. Conf. Proc. 7:12-15.
- 1953b. Sprays for reducing surface mold and rot of Kadota figs. California Fig Inst. Ann. Res. Conf. Proc. 7:17-20.
- 1954a. Further experiments on the control of surface mold and rot of Kadota figs. California Fig Inst. Ann. Res. Conf. Proc. 8:16-20.

- 1954b. Late pruning again reduces phomopsis canker infection.  
California Fig Inst. Ann. Res. Conf. Proc. 8:20-22.

Eriksson, Jakob

1930. Fungous diseases of plants. (2d ed.) 526 pp. C. C. Thomas, Springfield. Transl. by Wm. Goodwin. (Bacillus fici, p. 38.) Observed in southern Italy, according to F. Cavara, 1905, and L. Petri, 1906.

Farlow, W. G., and A. B. Seymour

1888. A provisional host-index of the fungi of the United States. Part 1, 219 pp. Fr. by L. C., Cambridge. (Ficus carica, pp. 97, 206.) Short list only.

Farneti, Rodolfo

1903. Le volatiche e l'atrofia dei frutti del fico. Ist. Bot. della R. Univ. Pavia Atti (n.s.) 8:1-5. 1 pl. Alternaria fici, n. sp.; Cladosporium sicophilum, n. sp. Abstracted in: Bot. Centr. 95:454. See also: Lab. Crit. It. Atti. (2d ser.) 8:513. 1904.

Ferraris, Teodoro

1926. Trattato di patologia e terapia vegetale. 2 vols. Ulrico Hoepli, Milano. (Fico, see index 2:1242.) Several diseases of tree and fruit.

1927. La batteriosi del fico. Curiamo le Piante! Difesa delle Piante contro le Mal. ed i Parassiti, Anno 5:150, 151.

Fields, W. S.

1945. Summary of the more important plant diseases. Plant Dis. Rep. 29:693-97. Ascochyta caricae causing large leaf spots on figs.

Flock, R. A.

1954. Transmission of fig mosaic by an eriophyid mite. California Fig Inst. Ann. Res. Conf. Proc. 8:15-16.

Flock, R. A., and J. M. Wallace

1955. Transmission of fig mosaic by the eriophyid mite, Aceria ficus. Phytopathology 45:52-54. Figures 1 and 2. Methods and results; mites found on all fig trees examined, in California.

Franchini, G.

- 1922a. Amibes et autres protozoaires de plantes à latex du Muséum de Paris. Soc. de Path. Exot. Bul. 15:197-203. From outdoor fig trees examined in March.

- 1922b. Sur une amibe des figuiers de plein air de la région parisienne et sa culture. Soc. de Path. Exot. Bul. 14: 287-92. 3 illus. Found in fresh latex of fig near Paris.



- Franco, E.  
1946. Doenças e pragas constatadas no Maranhão. (Brazil) Min. da Agr. (Rio de Janeiro) Bol. Fitossan. 3:91-96. Abstracted in: Rev. Appl. Mycol. 26:8. Figs subject to infection by Kuehneola fici.
- Frezzi, M. J.  
1950. Las especies de Phytophthora en la Argentina. Rev. Invest. Agr. B. Aires 4:47-133. Abstracted in: Rev. Appl. Mycol. 30:433. P. citrophthora on fig.
- Fulton, H. R.  
1927. Diseases of subtropical fruits. Plant Dis. Rep. Suppl. 52:93-109. (Fig, p. 103.) Four cankers due to Diplodia, Macrophoma fici, Sclerotinia, and Tubercularia; other diseases listed.  
1928. Diseases of subtropical fruits in 1927. Plant Dis. Rep. Suppl. 60:212-22. (Fig, pp. 217-18.) Several briefly noted.
- Gadd, G. H.  
1925. Report of the Division of Botany and Mycology. In: Ceylon Director Agr. Admin. Rept. 1924:D 13-D 14. Abstracted in: Rev. Appl. Mycol. 5:147. Rosellinia arcuata on fig.
- Galloway, B. T.  
1893. Report of the Chief of the Division of Vegetable Pathology. In: U. S. Dept. Agr. Rept. of Sec. 1892:215-46. (Fig, p. 239.) Fermentation of figs in California studied by N. B. Pierce.
- Garcia Rada, G., and J. A. Stevenson  
1942. La flora fungosa peruana. 112 pp. Estac. Exp. Agr. La Molina. Abstracted in: Rev. Appl. Mycol. 23:316. Cerotelium fici, general on fig.
- Gard, M.  
1922. Sur le dépérissement des jeunes noyers en 1922. Acad. des Sci. (Paris) Compt.-Rend. 175:716-18. Fig die-back, probably due to frost.
- Garren, Kenneth H.  
1947. Fig mosaic in Georgia. Plant Dis. Rep. 31:300-1. On trees at Macon, Georgia, apparently of local origin; symptoms and effects described.
- George, D. C.  
1922. Notes on plant diseases in Arizona, 1922. Arizona Commr. Agr. and Hort. Ann. Rept. 14:98-109. (Fig, pp. 101, 109.) Young fig trees seriously injured by root rot; 50% of entire planting killed in less than 2 weeks' time; trees very much subject to nematode attack.

Ghirlanda, C.

1924. Sopra una malattia del fico. R. Acad. d'Agr. Torino, Ann. 67:71-76. Figures 1-2. Abstracted in: Internatl. Rev. Sci. and Pract. Agr. (Rome) 4:455. 1926. Fruit fall of figs in Turin associated with the fungus, Alternaria fici; controlled by bordeaux mixture.

Giddings, N. J., and Jessie I. Wood

1925. Diseases of fruit and nut crops in the United States in 1924. Plant Dis. Rep. Suppl. 39:1-105. (Fig, pp. 99-100.) Cankers of four types described.

Gilmer, Ralph

1953. Comments on phomopsis canker. California Fig Inst. Ann. Res. Conf. Proc. 7:16.

Girola, C. D.

1922. Ganoderma sessile Murrill. (Buenos Aires) Min. de Agr. Nac. Bol. 1922:236-39. On roots of Ficus carica. Abstracted in: Rev. Appl. Mycol. 2:17.

Gonçalves, R. D.

1936. Podridao do figo. O Biologico São Paulo 2(2):66. Spoilage due to anthracnose.

1941. Cancro da figueira. O Biologico São Paulo 7(11):329. Canker due to Phomopsis cinerescens.

Gonzales Fragoso, R.

1921. Algunos demaciaceos de la flora Española. Soc. Espan. de Hist. Nat. Bol. 21:93-99. (Cercospora bolleana on fig leaves.) Abstracted in: Rev. Appl. Mycol. 1:354.

Gonzales Fragoso, R., and R. Ciferri

1925. Hongos parasitos y saprofitos de la Republica Dominicana. Soc. Espan. de Hist. Nat. Bol. 25:356-68. Kuehneola fici on leaves of fig. Abstracted in: Rev. Appl. Mycol. 5:128.

Graham, F. J.

1852. Fig fungus, Mucor cortisiae. Gard. Chron. 12:246, 262. Found in the interior of fig; a dense black stratum with an olivaceous velvety bloom.

Gram, Ernst, and Anna Weber

1953. Plant diseases in orchard, nursery, and garden crops. 618 pp. Philos. Libr., New York. (Fig, p. 168.)

Grancini, Pietro

1938. Il cancro del fico da "Phomopsis." Riv. di Patol. Veg. 28:103-114. 6 illus. Twig canker.

## Graniti, Antonio

1954. Il mosaico del fico in Italia e il suo probabile vettore. Riv. di Fruttic. 16:22-24. 2 figures. Short account; good literature. Possibility that in Italy too the eriophyid (Aceria ficus) is vector of mosaic virus.

## Grove, W. B.

1935. British stem and leaf fungi. 2 vols. Univ. Press, Cambridge. (Phomopsis cinerescens on fig, 1266-67.) On living and dead branches in England; a wound parasite.
1937. British stem-and leaf-fungi. 406 pp. Univ. Press, Cambridge. (Fig, pp. 41, 96.) Diplodia sycina on dead branches of Ficus carica; Camarosporium ficus sp. nov. on branches.

## Gyorgy, B.

1933. Ueber die an Ungarnländischen Feigenbäumen und Feigen beobachteten Pilzkrankheiten. Budapest Mezogazd. Kutat. 6:51-57. Illus. Reference in: Bot. Current Lit. 15(6):17.

## Halit, Ahmet M.

1930. A study of the fungi related to a crown-rot of fig trees. Univ. California, Berkeley, Thesis. M.S. 55 pp. (Typed.) Fusarium in Woodland orchard (Mission) of J. H. Currie.

## Hansen, Carl J.

1945. The effect of boron on deciduous fruit trees. Blue Anchor 22(4):12-15. 7 illus. (Fig, p. 12.) Figure 1 shows marginal scorch of Mission fig leaf, caused by excess boron.

## Hansen, H. N.

1927. Control of internal rot of caprifigged figs. Phytopathology 17:199-200. Fungicide injected into caprifigs.
1928. Endosepsis and its control in caprifigs. Phytopathology 18:931-38. 1 illus. 1 graph. Interrelation of fig, fungus, and blastophaga, methods of dissemination of fungus, control in caprifigs.
1929. Thrips as carriers of fig-decaying organisms. Science 69: 356-57. Twenty per cent of figs infested with thrips of various species.
- 1949a. Canker diseases in figs. California Fig Inst. Ann. Res. Conf. Proc. 3:18. Cankers due to Bacterium fici and Phomopsis cinerescens.
- 1949b. Control and cure of phomopsis canker of fig. California Fruit and Grape Grower 3(9):7. Attacks wound tissues; most serious on heavily pruned Kadotas.

Hansen, H. N., and A. E. Davey

1932. Transmission of smut and molds in figs. *Phytopathology* 22:247-52. Review of literature; figs entered by mites and thrips which carry spores; list of species given.

Hara, K.

1915. Kawakamia carica. Nog yokohu (Country of Agriculture) 9:24-27. Also in: *Nippon Engei Zasshi* (Jour. Hort. Soc. Japan) 30(Apr.):20-22. 1918. Cited by T. Tanaka, 1920.
1916. Phytophthora carica Hara. In: Kwaju Byogairon (A discourse on fruit diseases), (Nov.), pp. 431-36. Cited by T. Tanaka, 1920.

Hare, Gail

1930. A dissenting view on figs. *Pacific Rural Press* 120:650. Observations on souring.
1931. Souring of *Calimyrna* figs. *Pacific Rural Press* 122:176-77. Four factors, tonnage, odor, color, and position of fig on limb, all affect spoilage.

Harrigan, B. A.

1928. Fig endosepsis campaign in Imperial County. California Dept. Agr. Mo. Bul. 17:474. Disinfection of mamme fig crop seems successful and not too costly.

Harris, M. B.

1936. Aspergillus fischeri Wehmer, a fungus mildly parasitic on a number of plants. California Dept. Agr. Bul. 25: 378-83. In interior of caprifigs.

Harvey, J. M., and W. T. Pentzer

1953. The values of fumigants. U. S. Dept. Agr. Yearbook 1953: 844-56. Dried figs treated by gassing with ethylene oxide in the storage rooms.

Haskell, R. J.

1929. Diseases of fruit and nut crops in the U. S. in 1928. *Plant Dis. Rep. Suppl.* 70:177-258. (Fig, pp. 251-52.) Slightly affected by anthracnose in Mississippi and Texas and by leaf spot in the latter state.

Heald, F. D.

1924. Notes on plant diseases in Washington. *Amer. Micros. Soc. Trans.* 43:136-44. Botrytis cinerea on fig.

Heald, F. D., and F. A. Wolf

- 1908-1909. List of parasitic bacteria and fungi occurring in Texas. *Texas Acad. Sci. Trans.* 11. 37 pp. (Fig, pp. 11, 12, 17, 18, 27, 31.) Following listed only: Diplodia sycina, Macrophoma fici, Cercospora bolleana and C. fici, Physopella fici, Ozonium omnivorum.

1911. New species of Texas fungi. *Mycologia* 3:5-21. (*Cercospora fici*, p. 16.) Very abundant causing leaves to drop.
1912. A plant disease survey in the vicinity of San Antonio, Texas. U. S. Bur. Plant Indus. Bul. 226:3-112. (Fig, pp. 19, 26-27.) Various diseases listed and briefly described.
- Heinze, K.  
1951. Die Überträger pflanzlicher Viruskrankheiten. Mitt. aus der Biol. Anstalt für Landw., Berlin-Dahlem, 71:1-127. (Fig mosaic.) Cited by A. Graniti, 1954.
- Hendrickson, A.H.  
1925. Oak fungus in orchard trees. California Agr. Exp. Sta. Cir. 289:1-13. (Fig, p. 4.) Tree resistant.
1952. Effects of sprinkling on splitting of Calimyrnas. California Fig Inst. Ann. Res. Conf. Proc. 6:28.
- Hendrickx, F. L.  
1944. Liste annotée de champignons congolais. Inst. Natl. Étude Agron. du Congo Belge. Publ. 1:125-44. Abstracted in: Rev. Appl. Mycol. 30:196. *Kuehneola fici* common on leaves of cultivated figs.
- Hewitt, J. Lee  
1936. A survey concerning a native pathogen, *Armillaria mellea*. California Dept. Agr. Bul. 25:226-34. (Fig, p. 227.) Mention only.
- Higgins, B. B.  
1920. Morphology and life history of some ascomycetes with special reference to the presence and function of spermatia. Amer. Jour. Bot. 7:435-44. *Sphaerella bolleana* n. sp.; *Mycosphaerella bolleana* n. sp.; *Cercospora bolleana* common, causing leaf drop of fig.
- Ho, W. T., and L. Y. Li  
1936. Preliminary notes on the virus diseases of some economic plants in Kwangtung Province. Lingnan Sci. Jour. 15:67-78. (Fig, pp. 69-70.) Mosaic disease.
- Hodgson, R. W.  
1918a. Black smut of figs. California State Conn. Hort. Mo. Bul. 7:188-89. Figure 28. Also in: California Citrograph 3:283. 1 illus.; Fresno Republ., Aug. 4. A general account; infection averages 3 to 10% of crop, but sometimes reaches 15%.
- 1918b. The *Sterigmatocystis* smut of figs. *Phytopathology* 8:545-46. Fungus apparently the same as that causing an internal rot of pomegranate.



1924. Fruit troubles menace future of fig industry. California Cult. 63:397. Extent of the fig industry; heavy losses due to diseases such as splitting, souring, and soft rot; discussion of each and suggested methods of control.
- Hopkins, J. C. F.  
1949. Summary of Annual Report of the Chief Botanist and Plant Pathologist for the year ended 31st. Dec. 1948. Rhodesia Agr. Jour. 46:278-85. Abstracted in: Rev. Appl. Mycol. 29:143. Fig mosaic found; first record in Africa.
- Hori  
1915. Phytophthora fici. Byochu-gai Zasshi (Jour. Plant Protect.) 2:930-32, 1015-17. Cited by T. Tanaka, 1920.  
1916. Phytophthora carica. Taiwan Hakubutsu Gakkwai Kwaiho (Jour. Formosan Nat. Hist. Soc.) 26:174-79. Cited by T. Tanaka, 1920.
- Horne, W. T.  
1905. Los hongos y bacterias en relación con las enfermedades de las plantas. Cuba Sec. de Agr., Indus. y Com., Estac. Central Agron. Cir. 18:10, 11. 1 illus. Uromyces fici, a fig disease.
- Hyde, H. H.  
1937. Treating caprifigs. Pacific Rural Press 133:541. Control of endosepsis.
- Iyriboz, Nihat  
1940. Incir hastalıkları. (Fig pests.) Turkey Min. de l'Agr. Rept. 489. 88 pp. 33 figures. Abstracted in. Rev. Appl. Mycol. 20:483; Rev. Appl. Ent. 29:238. Included in this annotated list are 6 pages dealing with 15 pathogens of the fig crop in Turkey and elsewhere.  
1941. White root rot and sunburn (In Turkish.) Turkish Republ. Min. de l'Agr. Gen. Publ. 523:1-11. Figures 1-6. See also: Rev. Appl. Mycol. 26:533. Rosellinia necatrix on figs.
- Jacobsen, W. C.  
1927. Fig endosepsis clean-up campaign. California Dept. Agr. Bul. 16:251, 579-80, 635. Survey of caprifig trees, plan for state-wide campaign, resolutions adopted at meeting of Fig Institute.  
1928. Fig endosepsis. California Dept. Agr. Bul. 17:332-33, 655, 686. Insectary at Fresno and cooperation of State Department of Agriculture.

Jardine, W. M.

1927. Jardine urges appropriation for fig men. Fresno Republ., Dec. 25. Letter to Senator S. M. Shortridge citing critical condition of industry and necessity for action.

Johnstone, H. W.

1928. Was the fig endosepsis campaign a failure. California Cult. 70:680. Account of campaign and results.

Jones, B. R.

1913. The horticulturist's handbook. Los Angeles Co. Hort. Com. Bul. 1. 104 pp. ( Figs, p. 11.) A blight, probably of fungus origin sometimes affects leaves; bordeaux mixture not very effective.

Jones, G. H.

1935. Fig diseases. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 146:21, 22. Uredo fici common but causes little damage.

Kern, F. D.

1928. Fungi of Santo Domingo. Mycologia 20:60-82. (Cerotelium fici, p. 64.)

Kuhnoltz-Lordat, M., and J. M. Gastaud

1943. Notes de pathologie végétale. Ann. des Épiphyt. (n.s.) 9:207-19. (Figuier, p. 209.) Rosellinia necatrix caused underground infection of trunks. Abstracted in: Rev. Appl. Mycol. 25:361.

Kumar, L. S. S.

1944. Flowering plants which attack economic crops. III. Loranthus. Indian Farming 5:460-2. Fig included as host.

Langdon, W. J.

1890. Sour figs. California Fruit Grower 7(21):324.

Lanham, W. B., R. H. Wyche, and R. H. Stansel

1927. Spraying for the control of fig rust. Texas Agr. Exp. Sta. Cir. 47:1-8. Figures 1-3. Review of literature, experiments.

Leach, J. G.

1935. Insects in relation to plant diseases. Bot. Rev. 1:446-66. (Fig, p. 449.) Endosepsis, souring, and smut all depend upon certain insects for introducing inocula into fruit.
1940. Insect transmission of plant diseases. 615 pp. McGraw Hill Book Co., New York. (Fig pollination, pp. 41-42. Figure 24; diseases, pp. 234-40. Figures 114-17.) Fruit-spoilage diseases largely dependent upon insects for transmission; three most common are endosepsis, smut, and souring; each described.

1952. Insects, bacteria and fungi. In: U. S. Dept. Agr. Year-book 1952:191-96. (Endosepsis, smut, and souring of figs, p. 194.)
- Lebeuf  
1863. Sur une nouvelle maladie des figuier. Soc. Natl. d'Hort. de France Jour. 9:579-82.
- Li, Lai-Yung, and C. H. Procter  
1944. A virus disease of fig in New Zealand. New Zealand Jour. Sci. and Tech. 26(2), Sec. A:88-90. Figures 1-5. Pl. Dis. Div. Pub. 71. Symptoms; transmission by hypodermic injection failed; readily transmitted by grafting or budding; also found on four other species of Ficus.
- Lopriore, G.  
1907. Batteriosi del fico. N. Rass. An. 14. Catania. Cited by L. Savastano, 1910, p. 586.
- McAlpine, D.  
1900. Report of the Vegetable Pathologist. In: Victoria Dept. Agr. Ann. Rept. 1899:222-39. (Fig leaf spot, Phyllosticta sycophila, p. 227.) Does considerable damage to leaves.
- McCarthy, Gerald  
1893. The diseases and insects affecting fruit trees and plants. North Carolina Agr. Exp. Sta. Bul. 92:65-138. (Fig, p. 117.) Rust, beetles.
- Maffei, L.  
1925. Sul parassitismo di Phomopsis cinerescens Sacc. Traverso sopra i rami del fico. Riv. di Patol. Veg. 15:37-47. Figures 1-6. Abstracted in: Rev. Appl. Mycol. 4:554. Symptoms similar to that of canker in England; pruning out diseased branches suggested.
- Magee, C. J.  
1947. Sclerotium stem rot caused by S. rolfsii. N. S. Wales Agr. Gaz. 58:265-67. Abstracted in: Rev. Appl. Mycol. 27: 47. On fig.
- Maire, R.  
1940. À propos de la rouille du figuier. Rev. Agr. de l'Afrique du Nord 38:415.
- Marchionatto, J. B.  
1923. Contribución al conocimiento de los hongos parásitos de las plantas cultivadas. La Plata Univ. Nac., Facultad de Agron. Rev. (3d ser.) 15:83-92. Colletotrichum carica in leaves of fig. Reference in: Bot. Centrbl., Literatur 147:87.

Martin, J. P.

1942. Pathology. Hawaiian Sugar Planters' Assoc. Exp. Sta. Rept. 1941:28-42. Abstracted in: Rev. Appl. Mycol. 21: 350. Leaf spot of figs (Cercospora bolleana).

Massee, George

1898. A fig tree disease. Gardeners' Mag. 41:475. Illus. Due to Libertella.
1900. A fig disease (Cercospora bolleana). Gard. Chron. 28(706): 5. Illustration of diseased leaf and fungus spores; widely distributed in Mediterranean districts, and found in England; causes premature leaf drop.
1907. A text-book of plant diseases caused by cryptogamic parasites. 472 pp. The Macmillan Co., New York. (Fig tree disease, Libertella ulcerata, pp. 292-93.) Causes bark to become cankered and cracked.
1911. Diseases of cultivated plants and trees. 575 pp. The Macmillan Co., New York. (Fig, pp. 444, 448, 459.) Canker often serious on trees under glass; fig anthracnose.

Massey, W. F.

1916. What farmers want to know. Progressive Farmer 31:560. (Mississippi Valley ed.) Rust on fig tree; price of copper sulfate prohibitive for bordeaux mixture, suggests use of formaldehyde.

Matz, Julius

- 1917a. Leaf blight of the fig. Florida Agr. Exp. Sta. Rept. 1915-1916:108R-12R. Figures 21, 22. Description of the disease, economic importance, caused by Rhizoctonia sp.
- 1917b. A Rhizoctonia of the fig. Phytopathology 7:110-18. Figures 1-3. Rhizoctonia microsclerotia n. sp., in Florida.
1918. Some diseases of the fig. Florida Agr. Exp. Sta. Bul. 149:1-10. Figures 1-5. Includes anthracnose, Rhizoctonia, rust, rootknot, blights, and dieback.
1921. The Rhizoctonias of Porto Rico. Porto Rico Dept. Agr. Jour. 5:5-30. Figures 1-28. (Ficus carica, pp. 5, 18.) R. microsclerotia found on several hosts other than fig.

Maublanc, André

1913. Report on the diseases observed at the Phytopathological Laboratory of the National Museum of Rio Janeiro. Internatl. Inst. Agr. Monthly Bul. Agr. Intel. and Plant Dis. 4:858-61. Abstracted in: Exp. Sta. Rec. 32:238; Bot. Centrbl. 123:672. Uredo fici and Phyllosticta sycophila on fig.

Mehta, P. R.

1951. Observations on new and known diseases of crop plants in Uttar Pradesh. Plant Protect. Bul. New Delhi, 3(1):7-12. A zonate spot of the fig caused by Cephalosporium fici. Cited by W. B. Hayes, 1953, p. 315.

Mehta, P. R., and S. K. Bose

1947. A leaf-spot disease of fig caused by Cylindrocladium scoparium Morg. Indian Jour. Agr. Sci. 17:219-21. 1 pl. First appeared as brown spots on surfaces of leaves. Abstracted in: Biol. Abs. 23:2575; Rev. Appl. Mycol. 28: 22.

Melchers, L. E.

1931. A check list of plant diseases and fungi occurring in Egypt. Kansas Acad. Sci. Trans. 31:41-106. (Ficus carica, pp. 48, 55, 83, 102.) Includes Cerotelium fici, Kuehneola fici, Lentinus integrus, chlorosis.
1932. Plant disease problems in Egypt. Kansas Acad. Sci. Trans. 35:39-62. (Ficus carica, p. 58.) Variety found to have symptom of mosaic; neither common nor destructive.

Merrill, E. D.

1926. Report of the Agricultural Experiment Station of the University of California 1925-1926:1-102. (Fig, p. 76.) Investigation of soft rot continued, also breeding; 10 acres of land at Davis secured for fig seedlings.
1927. Report of the Agricultural Experiment Station of the University of California 1926-1927:1-110. (Fig, p. 83.) H. N. Hansen has developed a promising method of control of internal rot, by injecting the inside of caprifigs with a fungicide.
1930. Report of the Agricultural Experiment Station of the University of California 1928-1929:1-123. (Fig, p. 89.) Conclusion fig spoilage transmitted by insects and prevention almost entirely entomological. Crown rot due to a species of Phytophthora studied.

Middleton, J. T.

1943. The taxonomy, host range, and geographic distribution of the genus Pythium. Torrey Bot. Club Mem. 20:1-171. (Ficus carica, p. 59.) Pythium aphanidermatum in Japan.

Milbrath, D. G.

- 1931a. Brown rot of figs. California Cult. 77:515. Elimination of surplus caprifig trees, cleanup of orchards.
- 1931b. Bureau of Plant Pathology. California Dept. Agr. Monthly Bul. 20:790. Eradication of endosepsis by force not advisable under existing condition.



1932. Bureau of Plant Pathology. California Dept. Agr. Monthly Bul. 21:537. Endosepsis a practical factor in the fig industry; advocates establishment of isolated caprifig orchards.
1934. Diseases of figs. California Dept. Agr. Monthly Bul. 23: 481. Kadota, Adriatic, and Mission figs invaded by endosepsis.
- Miller, J. H.  
1941. The Ascomycetes of Georgia. Plant Dis. Rep. Suppl. 131: 1-93. (Ficus carica, pp. 49, 69, 88.) Three species listed only.
- Moore, W. C.  
1948. Report on fungus, bacterial and other diseases of crops in England and Wales for the years 1943-1946. (Gt. Brit.) Min. Agr. and Fisheries Bul. 139:1-90. Illus. Gibberella moricola, Phomopsis cinerescens, and Botrytis found on dead fig twig in Dorset.
- Mrak, E. M.  
1945. Microbiological deterioration in dried and dehydrated fruits. Canner 17:22. Abstracted in: Rev. Appl. Mycol. 24:278. Most deterioration of figs results from contamination in the orchard.
- Mrak, E. M., et al.  
1942. Yeasts occurring in souring figs. Jour. Bact. 44:441-50. Isolation of 115 yeasts; species listed and discussed; most souring results from association of yeasts and acetic acid bacteria; references given.
- Müller, A. S.  
1950. A preliminary list of plant diseases in Guatemala. Plant Dis. Rep. 34:161-64. (Fig, p. 163.) Rust common and the cause of reduced production.
- Müller, A. S., and D. A. Texera  
1940. Un estudio preliminar sobre el control de la roya de la higuera. Agricultor Venez. 4(49):35-37. 2 figures. Abstracted in: Rev. Appl. Mycol. 20:124. Cerotelium fici.
- Nance, Nellie W.  
1940a. Diseases of plants in the United States in 1938. Plant Dis. Rep. Suppl. 119:119-289. (Ficus carica, p. 170.) Rust and thread blight.  
  
1940b. Diseases of plants in the United States in 1939. Plant Dis. Rep. Suppl. 126:1-378. (Ficus carica, p. 301.) Corticium microsclerotia much more prevalent than usual; root rot and Physopella fici.

Natrass, R. M.

1937. A first list of Cyprus fungi. 71 pp. Govt. of Cyprus, Nicosia. (Fig, pp. 12, 41, 43.) Cerotelium fici on leaves, Diplodia natalensis and Hendersonula toruloidea on branches.

Nisikado, Y., and K. Kimura

1941. /On a Phytophthora rot of fig. 7 (In Japanese.) Ohara Inst. f. Landw. Forsch. (Kurashiki) Ber. 8:427-42. Abstracted in: Hort. Abs. 11:292. The morphology, physiology and pathogenicity of the fungus.

Noble, R. J.

1934. Australia: summary of plant diseases recorded in New South Wales for season 1932-33. Internatl. Inst. Agr. Internatl. Bul. Plant Prot. 25(4):3-5. (Fig mosaic, p. 4.) Widespread but generally unimportant.

Noble, R. J., et al.

1934. Plant diseases recorded in New South Wales. N. S. Wales Dept. Agr. Sci. Bul. 46:1-41. (Fig, p. 20.) Several diseases listed only.

1937. The occurrence of plant diseases in New South Wales. N. S. Wales Dept. Agr. Sci. Bul. 57:5-42. (Fig, p. 39.) Mosaic widespread, souring due to yeasts carried by mites, blight, root knot.

Orton, C. R., and Jessie Wood

1924. Diseases of fruit and nut crops in the United States in 1923. Plant Dis. Rep. Suppl. 33:35-147. (Fig, p. 141.) Leaf blight caused by Rhizoctonia microsclerotia reported from Florida, Alabama, and Louisiana for first time; rust, limb blight, root knot, anthracnose.

Farris, G. K.

1940. A check list of fungi, bacteria, nematodes and viruses occurring in Hawaii and their hosts. Plant Dis. Rep. Suppl. 121:1-91. (Ficus carica, p. 16.) Cercospora bolleana and Rhizopus mentioned only.

Patouillard, Marcisse

1892. Énumération des champignons observés en Tunisie. 19 pp. Impr. Nationale, Paris, (Fomes fici, p. 4. 1 figure.)

Febbley, Frank

1931. Ordinance declaring endosepsis, dried fruit beetle, vinegar fly, and fruit moth to be pests. Merced Co. California Bd. Supervisors Ordinance No. 187, filed Dec. 15, 1931. Legal definitions and regulations.

Perisic, M. M.

1952a. Mosaik smokve. Zasht. Bilja (Plant Prot. Beograd) 9:62-63. 2 plates. (Serbian with French summary.) Fig mosaic; no previous record in Yugoslavia.

1952b. A study of mosaic on fig trees in the Montenegrin Littoral. (In Serbian.) God. Polj. Fak. Yearbook Agr. Fac. Beograd No. 4:229-34. Abstracted in: Plant Breeding Abs. 23:462; 25:238.

Pesante, A.

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Pethybridge, G. H.

1926. Fungus and allied diseases of crops, 1922-1924. (Gt. Brit.) Min. Agr. and Fisheries Misc. Pub. 52:1-97. Abstracted in: Rev. Appl. Mycol. 5:468. Fig canker causes serious trouble in Sussex.

Petrak, F., and E. Esfandiari

1941. Beiträge zur Kenntnis der iranischen Pilzflora. Ann. Mycol. (Berlin) 39:204-8. Abstracted in: Rev. Appl. Mycol. 21:99. Kuehneola fici on figs.

Petri, L.

1906. Ricerche sopra la batteriosi del fico. R. Accad. Naz. dei Lincei, Cl. di Sci. Fis., Mat. e Nat. Rend. 15:644-51. 2 illus. Ascobacterium luteum isolated, cultivated, and reproduced by inoculation.

1940. Rassegna dei casi fitopatologici osservati nel 1939. R. Staz. Patol. Veg. Bol. (n.s.) 20:1-70. (Fico, p. 29.) See also: 22:1-62, 197-244. 1942. (Fico, pp. 32, 218.)

Pettit, G. A.

1930. Carriers of life. California Monthly 24(3):13-16. May. Popular account of the blastophaga, caprification, and endosepsis.

Phaff, H. J., E. M. Mrak, and R. L. Perry

1950. Attempts to control microbiological spoilage of freshly harvested figs by ethylene oxide fumigation. California Fig Inst. Ann. Res. Conf. Proc. 4:28.

Phillips, Edith H.

1922. Fig smut control. California Ann. Fig Inst. Proc. 6:25-28. 2 illus. Popular account.

1922. Some fig diseases. *Phytopathology* 12:107. Aspergillus, Sclerotinia causing die-back, an undetermined fungus which causes rot of fruits and subsequent stem cankers, are enumerated.
1923. Checking fig smut. *Assoc. Grower* 5(2):10. Aspergillus niger carried to fig by Carpophilus.
- Phillips, Edith, Elizabeth H. Smith, and R. E. Smith  
1925. Fig smut. *California Agr. Exp. Sta. Bul.* 387:3-38. 15 illus. A complete account of the disease, its transmission, and possible control.
- Pickel, D. B.  
1936-1937. Lista das molestias e dos fungos parasitarios das plantas cultivadas em Pernambuco. *Rodriguesia* 2 (numero especial):207-19. (Cerotelium fici, p. 212.) Frequently found on fig leaves.
- Pilgrim, A. J.  
1950a. Bacterial canker of *Adriatics*. *California Fig Inst. Ann. Res. Conf. Proc.* 4:32-33.  
1950b. *Phomopsis* canker of *Kadotas*. *California Fig Inst. Ann. Res. Conf. Proc.* 4:30-32.
- Pittman, H. A.  
1935. Fig leaf mottle. *West. Austral. Dept. Agr. Jour.* 12:196. Exceedingly common in Western Australia, causing distortion of leaves; suggests treating soil with copper sulfate.
- Pole Evans, I. B.  
1934. Aiming at better pastures and field crops. Annual Report of the Division of Plant Industry. *Farming in So. Africa* 9:539-48. Phoma cinerescens on fig. Abstracted in: Rev. Appl. Mycol. 14:426.
- Presley, J. T.  
1947. A host index of Mississippi plant diseases. *Plant Dis. Rep. Suppl.* 169:55-168. (Fig, p. 79.) Eleven diseases listed only.
- Prillieux, E.  
1896-1897. *Maladies des plantes agricoles*. 2 vols. Firmin-Didot et Cie, Paris. (Fig, 1:377; 2:50, 134.) Armillaria mellea, Capnodium, Dematophora necatrix.
- Prunet, A.  
1903. Sur une maladie des rameaux du figuier. *Acad. des Sci. (Paris) Compt.-Rend.* 136:395-97. Also in: *Prog. Agr. et Vit.* (Ed. de Est-Centre) 24:315-16. Abstracted in: Exp. Sta. Rec. 15:52. Botrytis in figs on trees during winter and later destroys branches.

- Frunet, A., and B. Aggery  
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- Puttemans, A.  
1906. Relação dos fungos parasitarios observados nos hortos de ensaios da Escola Polytechnica de São Paulo durante o anno de 1905-1906. São Paulo Esc. Polytech. Ann. 6:37-46. Uredo fici and Phyllosticta sycophila.
- Rabenhorst, L.  
1851. Mycologisches I. Bot. Ztg. 9:449-58. (Ascochyta caricae, p. 455.)
- Ramirez, R.  
1921. Venturia on figs. Rev. Agr. (Mex.) 9:662.
- Reichardt, H. W.  
1867. Ustilago ficum. Ein neuer Brandpilz. Zool.-Bot. Gesell. Wien. Verhandl. 17:335-36. In figs from Asia Minor.
- Reichert, I.  
1939. Palestine: diseases of fruiting plants (except Citrus). Internatl. Inst. Agr. Internatl. Bul. Plant Prot. 30:277M-293M. (Ficus carica, p. 279M.)
- Reinking, O. A.  
1919. Diseases of economic plants in South China. Philippine Agr. 8:109-34. (Kuehneola fici, p. 120.) Leaf rust severe, causes defoliation.
- Ritezel, W. A.  
1930. Figarden is scene of fig cleanup work. Fresno Republ., April 6. Popular account of caprify treatment for endosepsis.
- Rixford, G. P.  
1915. Split figs and irregular water. Pacific Rural Press 89: 684. Trouble avoided by planting nonsplitting varieties.  
1921. No remedy for the smut of figs. Pacific Rural Press 101: 611. Trouble similar to that which infests cereals; usually only found by opening the dried fig.
- Rogers, D. P.  
1943. The genus Pellicularia. Farlowia 1:95-118. Illus. Abstracted in: Rev. Appl. Mycol. 22:372. On living stems of fig.



Rose, Dean H., et al.

1943. Market diseases of fruits and vegetables, citrus and other subtropical fruits. U. S. Dept. Agr. Misc. Publ. 498:1-57. (Figs, pp. 42-45. Pl. 20, in color; figures A-D.) Alternaria spot, Aspergillus niger, blue mold and Cladosporium rot, Botrytis, Rhizopus, endosepsis, splitting, sunburn.

Rosenberg Brothers

1928. Mrs. Blastophaga goes to the cleaners. California Fruit News 77(2061):1. Advertisement, cleanup of caprifigs.

Rothers, B. V.

1928. Fig leaf disease. (Leningrad) Défense des Plantes 4:962. Abstracted in: Rev. Appl. Mycol. 7:427. Caused by Phyllosticta ficī-carici n. sp.

Rouillard, F. B.

1919. Moss injurious to fig trees. Fresno Republ. (Feb. 23), p. 28. Illus. Removed by a spray of quicklime and water or by lime-sulfur.
1921. Whitewash the fig trees for moss. Assoc. Grower 2(2):49. Illus. Also in: Fig and Olive Jour. 5(11):5. Moss causes bark to rot; whitewash prevents sunburn.

Ruehle, G. D.

1939. Notes on fruit diseases in Dade County, Florida in 1938. Plant Dis. Rep. 23:38-40. (Fig rust, p. 40.) Mention only.

Russell, T. A.

1943. Bermuda Department Agriculture Report 1942:1-11. (Ficus virus I, p. 8.) On fig plants imported from California.

Saccardo, P. A.

- 1882-1926. Sylloge fungorum omnium hucusque cognitorum. 25 vols. Sumptibus auctoris, Patavii. (Ascochyta caricae, 3:394.) Synonymy; habitat in fig leaves, Italy, Argentina.

Salmon, E. S., and H. Wormald

1916. The fig canker, caused by Phoma cinerescens. Ann. Appl. Biol. 3(1):1-12. Pls. 1-2, figure 1. Serious at Sompting, Sussex, on young and old branches.

Savastano, L.

- 1884a. Gommose caulinare et radicale dans les Aurantiaceae, Amygdalees, le figuier, l'olivier, et noircissement du noyer. Acad. des Sci. (Paris) Compt.-Rend. 99:987-90. Gummosis much same in all; gum centers either form as result of injury or without any apparent external cause.

- 1884b. Il marciume del fico. R. Scuola Super. di Agr. Ann. 3(fasc. 5):67-110. 4 illus. Also in: Rev. de Mycol. 6:80-88. Leaves become yellow and fall; chief seat of disease in roots; good account.
1897. Epoca di sviluppo della fumagine del fico nella Campania. Soc. di Nat. in Napoli Bol. 11:109-27. (Fico, p. 117.)
1905. Marciume un taleaio di fichi. Bol. dell'Arbor. Ital. 1:121.
1909. Lezioni di patologia vegetale Napoli. Cited by A. Siniscalchi, 1911, p. 22.
1910. Patologia arborea applicata. 642 pp. F. Giannini e Figli, Napoli. (Fico, p. 633, and index.)
1911. Il languore nel fico. Acireale R. Staz. Sper. di Fruttic. e Agrumic. Ann. 1:135-36. Due to drought.
1914. Il seccume del fico nella Penisola Sorrentina. Acireale R. Staz. Sper. di Fruttic. e Agrumic. Vol. 16:1-3. Diagnosis, nature, and cure. See also: Bol. 18:1-4. 1915.
1923. Delle epidemie italiane del mal secco negli agrumeti, albicoccheti, ficheti, noceti e gelseti, studio di clinica arborea. Acireale R. Staz. Sper. di Fruttic. e Agrumic. Ann. 7:89-170. Illus. (Ficheti, pp. 134-45. Figures 11, 12.) See also abstract in: Rev. Appl. Mycol. 3:523.
1925. La cura del mal secco negli alberi fruttifera. Acireale R. Staz. Sper. di Fruttic. e Agrumic. Bol. 51:1-15. (Mal secco in fig trees.) Abstracted in: Rev. Appl. Mycol. 5:368. Disease attributed to bacteria; can only be checked at a very early stage.

Sawada, K.

1916. Phytophthora carica. Formosa Nat. Hist. Soc. Jour. 26: 174-79. (Cited by T. Tanaka, 1920.)

Schiel, Enrique

1940. Enfermedades de las plantas cultivadas en la Provincia de Santa Fe. II. Inst. Exp. Invest. y Fomento Agr. Ganad. (Santa Fe, Argentina), Pub. Tec. 21:1-23. (Ficus carica, pp. 9, 10.) Physopella fici, and virus or mosaic.

Schwarz, O., and A. Vasfi

1933. Beiträge zur Pathologie der Feige, Ficus carica L. I. Das Fruchtfäuleproblem in Kleinasien. Phytopath. Ztschr. 6: 589-618. General review; purports to show that 59.2% of all fig spoilage is due to endosepsis.

Seymour, A. B.

1929. Host index of the fungi of North America. 723 pp.  
Harvard Univ. Press, Cambridge. (Ficus carica, pp. 282-83.) Long list of scientific names only.

Shepard, H. W.

1921. The colloidal theory as applied to the splitting of the Smyrna fig. *Fig and Olive Jour.* 5(10):5, 6. Discussion of osmosis and the colloidal state; splitting controlled by choice of favorable environment.

Shepherd, E. F. S.

1937. A revised list of plant diseases occurring in Mauritius. Mauritius Dept. Agr. Sci. Ser. Bul. 23:3-14. (Fig rust, p. 7.)

Showalter, J. S.

1934. A menace to the fig industry of California. *Pacific Rural Press* 128:178. Advocates removal of surplus caprifig trees or topworking them to edible figs.

Sibilia, C.

1948. Il mosaico del fico in Italia. *Nuovo Giorn. Bot. Ital.* (n.s.) 55:579-80. Cited by A. Graniti, 1954.

1952. Rassegna dei casi fitopatologici piu notevoli osservati nel 1949. *Staz. Patol. Veg. Bol.* (3d ser.) 8:262-94. Fig mosaic. See also: 9:215-40. 1953.

Simmons, Perez, C. K. Fisher, and R. M. Warner

1949. Experiments in fig spoilage control. *California Fig Inst. Ann. Res. Conf. Proc.* 3:3-4. Tests with sprays to control spoilage in Calimyrna figs.

Small, W.

1921. Fig diseases. *Uganda Dept. Agr. Ann. Rept.* 1921:49-57. Leaves severely attacked by Uredo fici and fruit by a Colletotrichum.
1926. On the occurrence of a species of Colletotrichum. *Brit. Mycol. Soc. Trans.* 11:112-37. (Colletotrichum caricae on fig, pp. 120, 136.) In Uganda.

Smith, C. O.

1912. Further proof of the cause and infectiousness of crown gall. *California Agr. Exp. Sta. Bul.* 235:531-57. Figure 17. (Fig, p. 550.) Galls produced by inoculation.
1913. Some successful inoculations with the peach crown gall organism. *Phytopathology* 3:59-60. Fig tree inoculated August 24, 1910; branches showed galls early in 1912.

1937. Inoculation of some economic plants with Phytophthora cactorum and P. citrophthora. Phytopathology 27:1106-9. Figure 1. Mission fig developed lesions.

Smith, Elizabeth H., and Edith H. Phillips

- 1922a. Fig smut studies. (Abstract.) Phytopathology 12:442. Short account of investigation, time and type of infection; insects are the chief carriers.

- 1922b. Studies of the so-called "smut" of white fig varieties. California Dept. Agr. Monthly Bul. 11:755-58. Figures 178-80. Also in: Fruitman 3(3):4, 14, 15. 3 illus. 1923. The fungus, the Fresno investigations, inoculation experiments, mode of infection.

Smith, Kenneth M.

1937. A textbook of plant virus diseases. 599 pp. P. Blakiston's Son and Co., Philadelphia. (Ficus virus, pp. 192-93.) Occurrence in California and England.

Smith, Ralph E.

1924. Report on fig diseases. Assoc. Grower 6(6):15, 20. Work of Edith Phillips on smut and plans for study of endosepsis by P. Caldis.

1926. Progress report on control of internal rot. California Ann. Fig Inst. Proc. 10:1-3. (Mimeo.) Also in: Pacific Rural Press 112:573. Fig diseases and their control.

1941. Diseases of fruits and nuts. California Agr. Ext. Serv. Cir. 120:1-168. (Fig, pp. 69-73. Figure 29.) Following discussed: black spot, canker, endosepsis, limb blight, mold, mosaic, nematode root canker, Armillaria root rot, root knot, smut, souring, splitting.

Smith, Ralph E., and H. N. Hansen

1927. The improvement of quality of figs. California Agr. Exp. Sta. Cir. 311:1-23. Figures 1-16. Diseases most common are endosepsis, souring, smut, and mold; each described and control measures given.
1928. Calimyrna fig clean-up, past and future. Pacific Rural Press 116:604. Also in: California Fruit News 79(2126):9, and (2127):13. History, methods, problems, results.
1929. Results of 1929 endosepsis clean-up campaign in Merced County. California Ann. Fig Inst. Proc. 13:28-31. Also in: Pacific Rural Press 118:554. History of campaign, lessons from past experience, directions given, cooperation emphasized.

- 1930a. Progress with fig spoilage diseases. Pacific Rural Press 120:540. Controlling endosepsis by disinfection of mamme figs, and relation of insects to spread of diseases; good discussion.
- 1930b. Suggestions for control of fig diseases. California Agr. Exp. Sta. Cir. (unnumbered). 5 pp. (Mimeo.) Much same material found elsewhere.
- 1931a. Fruit spoilage diseases of figs. California Agr. Exp. Sta. Bul. 506:1-84. 47 figures. Complete and detailed account.
- 1931b. The prevention of spoilage in figs. Pacific Rural Press 122:526. Paper at 15th annual Fig Institute.
1935. Directions for control of endosepsis in figs, 1934 to 1935. California Agr. Exp. Sta. Cir. (unnumbered). 4 pp. Reducing number of caprifig trees, treating mamme figs, methods of handling profichi.

Sorauer, Paul

1922. Manual of plant diseases. Vol. 1. Non parasitic diseases. 888 pp. Transl. by Frances Dorrance. Record Press, Wilkes-Barre, Pa. (Fig, pp. 710-11, 861-71.) Review of work of Savastano on gummosis; bark tubers.

Stankovic, D.

1952. Production of healthy planting material as a control measure against virus diseases in fruit growing.<sup>7</sup> (Transl. title.) Zasht. Bilja (Plant Prot. Beograd) 9:93-98. Abstracted in: Rev. Appl. Mycol. 31:613. Virus diseases including fig serious.

Stapp, C.

1928. Schizomycetes (Spaltpilze oder Bakterien) Vol. 2:1-295. In: Sorauer's Handbuch der Pflanzenkrankheiten. Paul Parey, Berlin. (Bacteriosis of fig, pp. 84-85.)

Stevens, F. L.

1903. Fungus enemies of the peach, plum, cherry, fig and persimmon. North Carolina Agr. Exp. Sta. Bul. 186:23-46. Illus. (Fig, p. 46.) No specific diseases.

Stevens, F. L., and J. G. Hall

1908. Notes on plant diseases. North Carolina Agr. Exp. Sta. Ann. Rept. 30:58-71. (*Cercospora*, p. 65.) Abundant on fig especially late in season, causing leaves to turn yellow and fall prematurely.
1909. Eine neue Feigen-anthraknose. Ztschr. f. Pflanzenkrank. 19:65-68. Pl. 1. Colletotrichum carica n. sp.



1910. Diseases of economic plants. 490 pp. The MacMillan Co., New York. (Fig, pp. 190-91. Figure 83.) Includes fruit rot, rust, root rot, leaf blight, yellow rust.
- Stevenson, J. A.  
1926. Foreign plant diseases, a manual of economic plant diseases which are new to or not widely distributed in the United States. 198 pp. Govt. Pr. Office, Washington, D.C. (Ficus, pp. 75-77.)
- Stevenson, J. A., and F. L. Wellman  
1944. A preliminary account of the plant diseases of El Salvador. Washington Acad. Sci. Jour. 34:259-68. Abstracted in: Rev. Appl. Mycol. 24:51. Fig rust present in the uredo stage only.
- Streets, R. B.  
1937. Phymatotrichum (cotton or Texas) root-rot in Arizona. Arizona Agr. Exp. Sta. Tech. Bul. 71:299-410. Illus. (Fig, p. 317.) Fig listed as very susceptible.
- Sydow, H., and P. Sydow  
1904-1924. Monograph Uredinearum. 4 vols. Fratres Borntraeger, Lipsiae. (Uredo fici, 3:323, 417; 4:592.) Cited by G. Arnaud, 1931.
- Tanaka, T.  
1920. New Japanese fungi. Mycologia 12:25-32. Phytophthora carica, causes white rot of fig fruits.
- Tanner, Fred W.  
1944. The microbiology of foods. (2d ed.) 1196 pp. Garrard Press, Champaign, Ill. (Souring of figs, p. 648.) Souring according to P. D. Caldis, 1930; sugaring due to yeasts, according to E. E. Baker and E. M. Mrak, 1938.
- Tasugi, H., and H. Takatuzi  
1935. Nematosporangium aphanidermatum (Edson) Fitzpatrick on Phaseolus vulgaris. Nippon Phytopath. Soc. Ann. 5:245-64. (On Ficus carica.) Cited by J. T. Middleton, 1943, p. 59.
- Taubenhaus, J. J.  
1936. A fig decay; mosaic. Texas Agr. Exp. Sta. Ann. Rept. 49: 113, 116. Choanephora cucurbitarum attacking figs in all stages of development; fig mosaic.
- Taubenhaus, J. J., and W. N. Ezekiel  
1931. A Sclerotinia limb blight of figs. Phytopathology 21: 1195-97. Illus. Due to Sclerotinia sclerotiorum; natural infection from ascospores.

1933. Check list of diseases of plants in Texas. Texas Acad. Sci. Trans. 16:5-89. (Fig, p. 24.) Long list of diseases; botanical names only.
1936. A rating of plants with reference to their relative resistance or susceptibility to root rot. Texas Agr. Exp. Sta. Bul. 527:5-52. (Fig, p. 17.) Rates as extremely susceptible; Ficus sycomorus resistant.
- Taubenhaus, J. J., and J. N. Roney  
1935. Stem-blight of fig. Texas Agr. Exp. Sta. Ann. Rept. '48: 101. Fungus identified as Botryosphaeria ribis; pathogenicity and control methods undetermined.
- Tehon, L. R.  
1942. Diseases of trees. Amer. Nurseryman 75(2):34-35. Celeste fig leaf spot; fungus tentatively identified as Cephalosporium acremonium.
- Teodoro, Nicanor G.  
1937. An enumeration of Philippine fungi. Philippine Dept. Agr. and Com. Tech. Bul. 4. 585 pp. (Fig, see host index.) Four listed: Aecidium mori, Cerotelium fici, Kuehneola fici, Uredo fici.
- Tesche, W. C.  
1927. Sending our fig industry to the cleaners. Pacific Rural Press 104:655. State-wide cleanup campaign.
1928. Will we conquer fig endosepsis? Pacific Rural Press 115: 567.
1930. Calimyrna fig cleanup facts. Pacific Rural Press 109:376. From report of Commissioner D. P. Wheeler, Merced County.
- Tessier, P.  
1937. Une maladie du figuier en Kabylie. Rev. de Bot. Appl. et d'Agr. Trop. 17:371-72. Carried from caprifig; black fig, Ajenjar, particularly affected; Taranimt considered as somewhat resistant.
- Thirumalachar, M. J., et al.  
1950. Telia of the rust on cultivated figs. Current Sci. 19: 27-28. 2 illus. Abstracted in: Rev. Appl. Mycol. 29:418.
- Thomas, H. Earl  
1953. Two root rots of fruit trees. U. S. Dept. Agr. Yearbook 1953:702-5. Fig one of four orchard trees now known to live a normal life span in the presence of Armillaria mellea; trees susceptible to attack by Dematophora fungus.

Thomas, Harold E., et al.

1948. Rootstock susceptibility to Armillaria mellea. Phytopathology 38:152-54. (Fig, pp. 153, 154.) Least affected of all the trees examined and damage slight.

Thurber, E. R.

1919. Resistance of figs to oak fungus. Pacific Rural Press 97: 354. Trees of stone fruits died out; fig trees planted in same place not damaged.

Thurston, H. W.

1940. The rusts of Minas Geraes, Brazil, based on collections by A. S. Muller. Mycologia 32:290-309. (Cerotelium fici on Ficus carica, p. 293.) Mention only.

Tims, E. C.

1933. Stilbum cinnabarinum, the cause of a new fig disease in Louisiana. Phytopathology 23:35. Inoculations made, fungus identified; on Celeste fig but damage only minor.
- 1934a. Stilbum on fig in Louisiana. Phytopathology 24:843. Celeste quite susceptible, Brunswick more resistant; infection through wounds or leaf scars; remedies not effective.
- 1934b. Thread blight of fig in Louisiana. Plant Dis. Rep. 18:98. Severe attack due to Corticium koleroga; trees practically defoliated.
1935. A Stilbum disease of fig in Louisiana. Phytopathology 25:208-22. Figure 2. Celeste damaged more than other varieties; diseased branches pruned out and cut surfaces painted.
- 1941a. A new leaf spot of fig. (Abstract.) Phytopathology 31: 771. Cephalosporium acremonium on Celeste leaves; affected spots often fall out.
- 1944b. Thread blight on fig and pepper vine. Plant Dis. Rep. 28: 544. Corticium stevensii spread from fig tree to vine of Ampelopsis arborea.
- Tims, E. C., and Frances Bonner
- 1942a. Method of obtaining pure cultures of Corticium stevensii from sclerotia. Phytopathology 32:824-25. Use of 1500 sclerotia from fig and tung branches.
- 1942b. Studies of fig leaf blights. Louisiana Acad. Sci. Proc. 6: 13-34. A good account of three fungi which cause blight, Corticium stevensii, Rhizoctonia microsclerotia, and Rhizoctonia sp. See also abstract in: Rev. Appl. Mycol. 22:296.

- Tims, E. C., and P. J. Mills  
1938. Leaf blights of fig in Louisiana. (Abstract.) *Phytopathology* 28:663.
- Tims, E. C., and L. S. Olive  
1948. Two interesting leaf spots of fig. *Phytopathology* 38:707-15. Figures 1, 2. *Cephalosporium fici* sp. nov.; symptoms, technical description, cultural characters, taxonomy, pathogenicity; *Ormathodium fici* sp. nov., same; Baton Rouge, Louisiana.
- Tisdale, W. B.  
1947. Spring is orchard spray time. *Florida Grower* 56(4):25. Fig affected by three diseases, limb blight, rust, and thread blight; control.
- Tournefort, Joseph P. de  
1706. Observations sur les maladies des plantes. *Acad. Sci. (Paris) Hist. Mem.* (1705):323-45. (Figs, pp. 335, 340-43.) Reference in: Bradley Bibl. 1:206.
- Trabut, L.  
1923. Ennemis et maladies du figuier. *Alger.-Tunisie-Maroc. Bul. Agr.* (2d ser.) 29:117-24. Several diseases described.
- Trotter, Alessandro  
1946. Rassegna della consultazioni e delle attivita della sez. di patologia vegetale dell'Osservatorio di Portici- a tutto il 1942. *Ricerche, osservazioni e divulgazioni fitopatologiche, per la Campania e il Mezzogiorno* 10:1-64. Cited by A. Graniti, 1954, as the first record of fig mosaic in Italy.
- Truffaut, Georges  
1912. Les ennemis des plantes cultivées. 565 pp. *Libr. Larousse, Paris.* (Figuier, pp. 83-84.) Diseases and insect pests of fruits, branches, trunk, roots.
- Underwood, L. M., and F. S. Earle  
1897. Preliminary list of the known species of Alabama fungi. *Alabama Agr. Exp. Sta. Bul.* 80:127-270. (*Ficus carica*, pp. 140, 143, 153, 159, 218.) Includes *Cercospora bolleana*, *Cladosporium herbarum*, *Tricothecium roseum*, *Tubercularia ailanthis*, *Uredo fici*.
- University Explorer  
1933. The strange disease of the Calimyrna fig. *Univ. of California Radio Service Broadcast* 710. 8 pp. (Mimeo.) A popular broadcast; history of fig culture, introduction of blastophaga, endosepsis and its control.

Uppal, B. N.

1935. The fungi of Bombay. Bombay Dept. Agr. Bul. 176 of 1934: 1-56. (Cerotelium fici on fig, p. 14.)

1937. Summary of work of plant pathology. Bombay Dept. Agr. Ann. Rept. 1936-37, Appendix K:219-25. (Fig rust, p. 221.)  
See also: Rept. 1937-38, Appendix K:237-43. 1939. (Fig rust, p. 239.) Rept. 1938-39:203-13. 1940. (Fig rust, p. 205, 212.) Value of Sulsoi in control of rust. Rept. 1939-40:195-205. 1914. (Fig rust, p. 199.) No rust appeared during season, regardless of Sulsoi spray.

Vallese, F.

1905. Avversita e nemici del fico. Agr. Salentina An. 4:162 e seg.

Venkata Rao, M. K.

1916. Some diseases of trees in Mysore. Bombay Nat. Hist. Soc. Jour. 24:615. (Phytophthora fici.)

1928-1929. Annual report of work done in the mycological section during the year 1928-29. Mysore Dept. Agr. Rept.: 18-21. Fig leaf rust reported.

Verona, O.

1952. Intorno alla presenza nelle zone del litorale toscano di malattie dei fruttiferi ad eziologia incerta. Ann. Sperim. Agraria (n.s.) 6:615-22. Cited by A. Graniti, 1954. Fig mosaic observed in Sardegna.

Warner, Robert M.

1948. Fig disease and insect control. California Fruit and Grape Grower 2(4):19-20. 1 illus. Research laboratory and projects by California Fig Institute.

1949. Relative humidity and temperature as related to splitting in figs. California Fig Inst. Ann. Res. Conf. Proc. 3:5. Greatest amount of splitting where average relative humidity was highest.

1952a. Injection of fig trees for phomopsis canker. California Fig Inst. Ann. Res. Conf. Proc. 6:20-21.

1952b. Some observations on branch wilt in figs. California Fig Inst. Ann. Res. Conf. Proc. 6:24-25.

Warner, R. M., A. J. Pilgrim, and C. D. Fisher

1950. Quality tests of figs after ethylene oxide fumigation. California Fig Inst. Ann. Res. Conf. Proc. 4:29-30.



Waterston, J. M.

1939. Annotated list of diseases of cultivated plants in Bermuda. 38 pp. Bermuda Dept. Agr., Hamilton. (Fig rust, p. 7.)
- 1943a. Plant pathology. Bermuda Dept. Agr. Rept. 1942:8-9. Abstracted in: Rev. Appl. Mycol 23:5. Fig plants from California infected by mosaic.
- 1943b. Plant protection in Bermuda. Bermuda Dept. Agr. Bul. 21: 1-102. (Fig, p. 83.) Includes rust, failure to fruit, black scale, Mediterranean fruit fly.
1947. Report of the Plant Pathologist, 1946. Bermuda Dept. Agr. 18 pp. 4 figures. Abstracted in: Rev. Appl. Mycol. 26:331. Control of fig rust.

Watkins, G. M.

1944. Plant diseases observed in Texas during 1943. Plant Dis. Rept. Suppl. 149:326-38. (Fig, p. 335.) A trace of root rot (Phymatotrichum omnivorum) observed in Bell Co.; rust caused 5% loss in one orchard in Brazoria Co. and 10% loss in several orchards in Galveston and Harris counties; root knot noted on fig in Dallas county.

Weber, G. F.

1923. Leaf rust and blight of fig leaves. Florida State Plant Bd. Quart. Bul. 8(1):5. Controlled by spraying with bordeaux mixture.
1927. Thread blight, a fungus disease of plants caused by Corticium stevensii. Florida Agr. Exp. Sta. Bul. 186:143-62. Illus. (Fig, p. 144.) One of the host plants; a good account.
1931. Fig rust and its control. Florida Agr. Exp. Sta. Press Bul. 439:1-2. A short popular account of the disease and its control.
1940. Thread blight of woody plants. Florida Agr. Exp. Sta. Press Bul. 551:1-2. Fig a host.

Weiss, Freeman

1941. Check list revision. Plant Dis. Rep. 25:204-11. (Ficus carica, pp. 207-8.) Long list of names only.

Welsford, E. J.

1925. Fig diseases. Zanzibar Dept. Agr. Ann. Rept. 1924:15. Kuehneola fici and a species of Trabutia on fig.

Westcott, Cynthia

1950. Plant disease handbook. 746 pp. D. Van Nostrand Co., New York. (Fig, p. 501.) List of 16 diseases.

Wheeler, D. P.

1929a. Endosepsis clean-up work in Merced County, California Cult. 73:429. Losses before and after cleanup, costs, results.

1929b. Merced County endosepsis campaign. California Cult. 72: 506. Methods used.

1931. Practical control of endosepsis. California Cult. 77:581. A campaign and its results.

Whelton, Rita, et al.

1946. Control of microbiological food spoilage by fumigation with epoxides. Food Indus. 18:91-93. Abstracted in: Rev. Appl. Mycol. 25:509. Treatment of packed figs.

Whetzel, H. H.

1923. Cerotelium fici. Bermuda Bd. Agr. Rept. 1922:28. Causes defoliation of fig trees and probably responsible for dropping of fruit.

Whitney, D. J.

1922. Sulfur whitewash for fig trees. Pacific Rural Press 103: 435. Protection against sunburn, control of green algae, and smut.

1929. Eliminating internal rot in Calimyrna figs. California Cult. 73:226. A popular account.

Williams, P. H., et al.

1926. Mycological investigations. Cheshunt Expt. and Res. Sta. Ann. Rept. 12:24-46. (Fig-leaf bronzing due to Macrosporum sp.) Mention only in: Exp. Sta. Rec. 59:534.

Wilson, L. R.

1927a. Call on state to help stop disease in California fig. Fresno Republ., Nov. 5. Resolutions at Fig Institute.

1927b. Fig growers face serious pest problem. Fresno Republ. State drive against fig diseases; methods of control.

1928. All caprifigs to be stored by March 1. Fresno Republ., Feb. 26.

Wolf, F. A.

1911. A disease of the cultivated fig. Ann. Mycol. 9:622-24. Figure 1. Disease referred to Macrophoma fici; on a purple fig only; gains entrance through open end of receptacle and causes whole fruit to rot; parasite also on twigs.

1949. Notes on Venezuelan fungi. Lloydia 12:206-19. (Cerotelium fici on fig, p. 211.)

Wolf, F. A., and S. G. Lehman

1920. Fig anthracnose. North Carolina Agr. Exp. Sta. Rept. 43: 56. Causes rotting of fruit and considerable defoliation; identified as Glomerella cingulata.

Wolf, F. A., and E. E. Standford

1918. A Macrophoma disease of fig. Phytopathology 8:24-27. Manifests itself in Texas by a die back of branches, cankers on larger limbs and rotting of fruit.

Wolf, F. A., and F. T. Wolf

1947. The fungi. 2 vols. John Wiley and Sons, New York. (Fig, see index.)

Wollenweber, H. W., and H. Hochapfel

1947. Beiträge zur Kenntnis parasitärer und saprophytischer Pilze. VI. Ztschr. f. Parasitenk. 14:181-268. Abstracted in: Rev. Appl. Mycol. 29:157. Glomerella cingulata var. minor on moribund fig leaves in a glasshouse.

Wood, Jessie I., and Nellie W. Nance

1938. Diseases of plants in the United States in 1937. Plant Dis. Rep. 110:153-319. (Ficus carica, p. 216.) In Louisiana usual amount of damage caused by thread and twig blight and rust.

Wood, Jessie I., N. E. Stevens, and P. R. Miller

1933. Diseases of plants in the United States in 1932. Plant Dis. Rep. Suppl. 85:1-82. (Fig, p. 41.) Leaf spot and rust caused defoliation in North Carolina; blight due to Stilbum cinnabarinum observed for first time in Louisiana.

Wormald, H.

1939. Diseases of fruits and hops. 290 pp. Crosby Lockwood and Son, London. (Fig, pp. 243-45.) Treats of canker due to Phomopsis, gray mould die-back due to Botrytis, and leaf mosaic.

Yu, T. F.

1939. A list of plant viroses observed in China. Phytopathology 9:459-60. (Fig mosaic, p. 460.) General in orchard at Nanking; damage slight.
1940. A list of important crop diseases occurring in Kiangsu Province. Lingnan Sci. Jour. 19:67-68. (Fig, p. 70.) Includes anthracnose, Botrytis fruit rot, and mosaic, all at Nanking.

## INSECTS AND OTHER PESTS

Adle, A. H.

1932. Persia: insect pests. Internat'l. Rev. Sci. and Pract. Agr. 23(1):M5. Icerya purchasi on figs. Abstracted in: Rev. Appl. Ent. 20:266.

Alfken, J. D.

1928. Ueber das auftreten d. Johannisbrot-Zunslers, Myelois ceratoniae in Bremen. Gesell. f. Vorratsschutz E. V. Mitt. 4(5):55-56. Abstracted in: Rev. Appl. Ent. 17:12. Myelois migrated from cases of figs for pupation only.

Allan, W.

1930. Insect pests and plant diseases of economic importance during the year. North. Rhodesia Dept. Agr. Ann. Rept. 1929:36-44. Omophorus stomachosus eats into heart of figs and causes them to drop. Abstracted in: Rev. Appl. Ent. 19:191. See also: Rept. 1930:21-24. Phryneta spinator and Omophorus attacked figs. Abstracted in: Rev. Appl. Ent. 19:644.

Allen, M. W.

1949. Root-lesion nematodes. California Agr. 3(1):8, 14. Illus. Fig a host plant.

Allen, M. W.

1952. Nematode parasites on trees and vines. West. Fruit Grower 6(2):33. Illus. (Fig, pp. 34, 36.)

Anagnostopoulos, P. Th.

1933. Control of fig tree wax scale (Ceroplastes rusci.) (Greek with English summary.) Enea Agrotike Zoe, No. 167. Lime-sulfur used; natural enemies.
1936. The causes of fall of green figs. (In Greek.) Hort. Research (Athens) 3d quarter:139-43. Due to presence of larvae of Lonchaea aristella.
- 1939a. The enemies of fruit trees. (Text in Greek.) 650 pp. 243 figures. IV. The fig tree.
- 1939b. The fighting of insects by trapping. (In Greek.) Hort. Research (Athens) (Jan-Mar.), pp. 3-18. Fig fly.

Anonymous

1834. Insecticide for fig. Young gardener's assistant. Also in: Farmer and Gard. /Baltimore/ 1:246. A wash made of soap, sulfur, pepper, and water.

1837. Figs, grapes, and fig eaters. Southern Agr. 10:345-46.
1893. Borers in fig trees. New Orleans Times-Democrat. Also in: Insect Life 5:365-66. Trees destroyed by flat-headed borer in Louisiana.
1905. A preliminary list of the more injurious insects of Texas, with notes on distribution. Texas Agr. and Stat. Rept. 1905:261-76. (Long-horned borer on fig, p. 268.)
1914. Osservatorio Autonomo Fitopat. (Turin) Monthly Leaflets 1-12. 48 pp. Abstracted in: Rev. Appl. Ent. 3:123. Homotoma ficus on fig. See also: Osservatorio for 1915. Abstracted in: Rev. Appl. Ent. 4:201. Hemerophila nemorana on fig. Osservatorio for 1918. Abstracted in: Rev. Appl. Ent. 7:157. Ceroplastes rusci on fig.
- 1915a. Farming calendar. Rhodesia Agr. Jour. 12:397-400. Abstracted in: Rev. Appl. Ent. 3:618. Omophorus stomachosus in winter crop of fig.
- 1915b. The principal queries received at the Central Phytopathological Station during 1914. Petrograd 9(1,2):44-66. Abstracted in: Rev. Appl. Ent. 4:23. Rhopalosiphum dianthi on fig.
- 1922a. Departmental activities: Entomology. Union So. Africa Dept. Agr. Jour. 4:300-4. (Heterodera radiculicola on fig roots, p. 300.) See also: 5:108-109, 397-98; 6:288-90. (Oncopeltus famelicus damaging fig fruit.) 9:2-3. 1924. Chrysomphalus aurantii on fig plants from India. Abstracted in: Rev. Appl. Ent. 10:338, 548; 11:39, 329.
- 1922b. A report of meeting of cotton states entomologists, Dallas, Tex. Nov. 30-Dec. 2, 1921. Jour. Econ. Ent. 15: 105-12. Pseudaonidia duplex on fig.
1926. Trabajos de las Estaciones de Patología Vegetal. Bol. Estación de Patol. Veg. 1:107-13. Ceratitidis capitata in figs; severe infestation. Abstracted in: Rev. Appl. Ent. 14:616.
1927. Fig fumigation in assisting quality. California Fruit News 76(2046):9.
- 1928a. Efforts to control fig moth in Turkey. California Fruit News 77(2080):18. Fig Producers' Cooperative Association educating growers.
- 1928b. Mealybug attacks figs. California Cult. 71:555. Inside figs in all stages.



1929. Rapport phytopathologique pour l'année 1928. Ann. des Epiphyt. 14:415-70. Hemerophila nemorana on figs.
- 1930a. Principales plagas y enfermedades de los cultivos en la Republica Mexicana. 375 pp. Secr. Agr. y Fomento Tacubaya, Mexico. (Plagas de la higuera, Azochis grypusalis, p. 124.)
- 1930b. Two important quarantine seizures. California Dept. Agr. Bul. 19:519. Larvae of fruit fly found in fig from Hawaii.
1936. Some common insect pests of fruit trees. Trop. Agr. (Ceylon) 86:195-205, 259-70. (Fig, pp. 263-64.) Leaf eating caterpillars, larvae of Ocinara varians; also of two species of Hypsa.
- 1936-1937. Insect pests and their control. N. S. Wales Agr. Gaz. 47:569-73; 48:41-44, 52. (Galerucella semipullata, skeletonizes fig leaves and feeds on fruit skin; Oxy-carenus luctuosus on fig fruits.)
1938. The enemies of the fig. (Greek text.) Hort. Research, Athens, (Apr.-June), pp. 443-64. Illus. Long lists of insects; described and illustrated.
1940. Insect pests and their control. N. S. Wales Agr. Gaz. 51: 39-42. Abstracted in: Rev. Appl. Ent. 28:513. Dihammus vastator attacks cultivated figs. See also: Gaz. 52:95-99. 1941. Abstracted in: Rev. Appl. Ent. 29:609. Hylesinus ficus mines in terminal twigs.
1947. An auger beetle (Bostrychopsis jesuita). N. S. Wales Agr. Gaz. 58:427-28. Fig trees injured. See also: Gaz. 59: 369-74. Dihammus vastator on native fig trees, Hylesinus fici and Bostrychopsis jesuita on cultivated fig.
- 1954a. Don't give a fig. Amer. Cyanograms 4(3):27. Photo by California Fig Institute. Use of malathion to control dried fruit beetles and vinegar flies.
- 1954b. Ladybird beetles help control fig scale. California Farmer 200:303. Beetle feeding on scale continuously during summer.
- Ansari, A. R.  
1946. Notes. Indian Jour. Ent. 7:241-42. Abstracted in: Rev. Appl. Ent. 36:123. Pseudococcus filamentosus and Coccus discrepans on fig.
- Armitage, H. M.  
1949. The Oriental fruit fly from the mainland viewpoint. Jour. Econ. Ent. 42:713-16. Fig a host.

1952. Current insect notes. California Dept. Agr. Bul. 41:122-24. (Fig, p. 123.) See also: p. 239. Fig scale at Fullerton, first time found south of Tehachapi. See also: Bul. 42:39-41. Fig scale found at Buena Park, Orange County.
1953. Bureau of Entomology, California Dept. Agr. Bul. 42:199-233. (Fig, pp. 205, 223, 228.) Fig scale found in San Diego County and infested trees pulled out; scale of little significance in Merced County, possibly due to parasite Aphytis "C"; green fig beetle slowly spreading and now found in Orange and Los Angeles Counties. See also: Bul. 43:43. Bul. 44:42-46. 1955. Green fig beetle, Cotinis texana, continuing its westward spread in Los Angeles County.

Arnaud, G.

1917. /Scale on fig./ (In French.) Soc. de Path. Vég. France Bul. 4(2):95. See also: pp. 86-88. Ceroplastes rusci caused sooty mold.

Arnault

1934. Les criquets à Laghouat en 1933. Terre et Vie 4:219-23. Abstracted in: Rev. Appl. Ent. 22:328. Schistocerca gregaria on figs.

Atkinson, G. F.

1889. A new fig insect. So. Carolina Agr. Exp. Sta. Ann. Rept. 1888:26. Armored scale Mytilaspis n. sp., on stem; loss of fruit.

Ayers, E. L.

1923. Field work, for the year, in Florida on insect control. Florida State Plant Bd. Quart. Bul. 8(1):8-17. Heterodera radiculicola on figs; roots of trees near buildings run underneath and get more moisture.

Ayyar, T. V. R.

1920. Coccids affecting fruit-trees in southern India. In: Report of Proc. Third Entomological Meet. at Pusa, Feb. 3-15, 1919. Vol. 2. Govt. Pr., Calcutta. See: pp. 601-9. (Fig, p. 606.) Fig harbors two coccids, both of which do some damage to fruits; Aspidiotus cydoniae and Pseudococcus crotonis.
1921. A check list of Coccidae of the Indian region. In: Report of Proc. Fourth Entomological Meeting at Pusa, Feb. 7-12, 1921. 401 pp. Govt. Pr., Calcutta. Aspidiotus lataniae on fig, p. 355; A. cydoniae, p. 356.

Back, E. A., and C. E. Pemberton

1918. The Mediterranean fruit fly in Hawaii. U. S. Dept. Agr. Bul. 536:1-118. (Fig, p. 37.) Fruit generally infested.

## Bailey, S. F.

1937. The bean thrips. California Agr. Exp. Sta. Bul. 609:1-36. (Fig a host plant, p. 6.)
1938. Thrips of economic importance in California. California Agr. Exp. Sta. Cir. 346:1-77. (Fig, p. 34.) Hercotothrips fasciatus mentioned only.
1954. Variations in thrips abundance on figs. California Fig Inst. Ann. Res. Conf. Proc. 8:23-24.

## Baker, A. C., et al.

1944. A review of studies on the Mexican fruitfly and related Mexican species. U. S. Dept. Agr. Misc. Publ. 531:1-155. Illus. Figs infested by Anastrepha mombinpraeoptans.

## Baker, E. W.

1938. Fig mites and insects and their control. Pacific Rural Press 135:300.
1939. The fig mite, Eriophyes ficus Cotte, and other mites of the fig tree. California Dept. Agr. Bul. 28:266-75. Pl. 1. An excellent account; distribution, synonymy, stages of the mite, feeding habits, predators, control.
1946. Some Tydeidae from the fig tree (Ficus carica L.) Escuela Nac. de Ciencias Biol. (Mexico) An. 4:255-60. Abstracted in: Biol. Abs. 21:1947. Several new species described from California.

## Balachowsky, A.

- 1926a. Note sur un coccide de la faune néo-tropicale récemment acclimaté et nuisible au figuier en Algérie. Soc. d'Hist. Nat. de l'Afrique du Nord Bul. 17:63-69. 1 pl., 4 figures. Morganella longispina on fig. Abstracted in: Rev. Appl. Ent. 14:457.
- 1926b. Sur la présence en Algérie du Sycosoter lavagnei Picard et Licht, parasite externe de Hypoborus ficus. Soc. d'Hist. Nat. de l'Afrique du Nord Bul. 17:263-64. Abstracted in: Rev. Appl. Ent. 15:488.
1928. Contribution à l'étude des coccides de l'Afrique mineure. Soc. d'Hist. Nat. de l'Afrique du Nord Bul. 19:121-44. Abstracted in: Rev. Appl. Ent. 16:603. Aspidiotus ceardi n. sp. on fig.
1929. Biologie d'Hesperophanes fasciculatus Fald., Cerambycidae nuisible au figuier cultivé en Afrique du Nord. Rev. de Path. Vég. et d'Ent. Agr. de France 16:156-59. 1 pl. Abstracted in: Rev. Appl. Ent. 17:540. Very injurious generally working in wood of current season.

1932. Étude biologique des coccides du bassin occidental de la Méditerranée. 214 pp. Paul Lechevalier et Fils, Paris. (La faune coccidologique du figuier, pp. 145-146.) Several species listed; majority of cochinites on figs are not specific but become adapted to the plant gradually.

Balachowsky, A., and L. Mesnil

1935. Les insectes nuisibles aux plantes cultivées. 2 parts. 1137 pp. Étab. Bussan, Paris. (Figuier, pp. 574-92. Figures 421-30.) Includes Hypoborus ficus, Hesperophanes fasciculatus and H. griseus, Simaethis nemorana, Lonchaea aristella, Homotoma ficus.

Ballou, C. H.

- 1935-1936. Insect notes from Costa Rica in 1934. U. S. Dept. Agr. Bur. Ent. and Plant Quar. Ins. Pest Survey Bul. 15: 163-212. 1935; 16:437-97. 1936. (See Ficus carica.) Fifteen species listed.

Baranov, N.

1937. /The olive fly, Maslinova musica./ (In Serbian.) Zagreb, Skola Narodn. Zdravlja Med. 16 pp. 7 figures. Abstracted in: Rev. Appl. Ent. 25:536. Dacus oleae feeds on juice of ripe figs.

Barnes, D. F.

1949. Information on beetles infesting figs. California Fig Inst. Ann. Res. Conf. Proc. 3:21-23. Three species of nitidulids common, Carpophilus hemipterus, C. dimidiatus, and Haptoncus luteolus.
1952. Observations on the spring food habits of nitidulid beetles which attack figs. California Fig Inst. Ann. Res. Conf. Proc. 6:7-8.

Barnes, D. F., and C. K. Fisher

1934. Stimulation of fig insects (Carpophilus hemipterus L. and Ephestia figulilella Greg.) by certain fumigants. Jour. Econ. Ent. 27:860. Stimulation judged by percentage leaving fruit before death occurred.

Barnes, D. F., and E. M. Stafford

- 1949a. Control of fig scale in California. Jour. Econ. Ent. 42: 48-55. 1 illus. Life history and methods of control.
- 1949b. The effect of the recent cold winter in California on the fig scale. Fig Leaf 2(3):6. Minimum temperature 18° F; 35% of scales dead; mortality 4 to 5 times as great as in milder winters.

Basinger, A. J.

1927. The eradication campaign against the white snail (Helix pisana) at La Jolla, California. California Dept. Agr. Bul. 16:51-76. (Fig trees, p. 55.) Trees constantly defoliated.

Beall, Albert

1926. Control of red spider on figs. California Cult 66:160. Dusting with dry sulfur unsatisfactory; lime-sulfur spray used regularly.

Beeson, C. F. C.

1919. The food plants of Indian forest insects. Indian Forester (Allahabad) 45:468-95. Batocera rubus on fig.

Berger, E. W.

1942. Some unusual hosts of cottony cushion scale. Florida Ent. 25:46-47. One record on fig.

Berlese, A.

1903. Sopra una nuova specie di cocciniglia (Mytilaspis fici-folii) che attacca le foglie del fico. R. Ist. d'Incorr. di Napoli Atti 5(12). 5 pp.

Bessey, Ernst A.

1911. Root-knot and its control. U. S. Dept. Agr. Bur. Plant Indus. Bul. 217:1-89. Illus. (Fig, see index.) Celeste and Poulette said to be less subject to injury than other kinds.

Bezzi, M.

1916. On the fruit flies of the genus Dacus occurring in India, Burma and Ceylon. Bul. Ent. Res. 7:99-121. Dacus zonatus in fig.
1918. Two new Ethiopian Lonchaeidae with notes on other species. Bul. Ent. Res. 9:241-54. (Lonchaea aristella in fig, p. 253.) Larvae feed on flowers and receptacle.

Blatchley, W. S., and O. W. Leng

1916. Rhynchophora or weevils of eastern North America. 682 pp. Nature Publ. Co., Indianapolis. (Fig, pp. 118, 575, 603.) Calandra oryza in dried fruit; Stephanoderes erectus bred from dead twigs.

Blin, Henri

1912. Les cochenilles du figuier et de l'oranger. Revue Hort. 84:201-3.



Bodenheimer, F. S.

1924. Observations about some scale insects from El-Arish (Sinai) and Transjordan. Soc. Roy. Ent. d'Egypte Bul. (16):121-24. Abstracted in: Rev. Appl. Ent. 12:360. Lepidosaphes ficus abundant on fig.
1925. The Mediterranean fruit-fly in Palestine. Zionist Agr. Exp. Sta. Cir. 2:1-22. Pl. 1, figures 1-11. Fig, a minor host.
1928. Eine Kleine Cocciden-ausbeute aus Griechenland. Konowia 7:191-92. Abstracted in: Rev. Appl. Ent. 17:16. Aspidiotus lataniae and Lepidosaphes ulmi on fig; both new to Greece.
1944. Additions to the Coccoidea of Iraq. Soc. Fouad Ier Ent. Bul. 28:81-84. Abstracted in: Rev. Appl. Ent. 34:16. Three species on fig.

Bodkin, G. E.

1927. The fig wax scale (Ceroplastes rusci L.) in Palestine. Bul. Ent. Res. 17:259-63. Pl. 1, figure 1. Distribution, importance, life history, habits, natural enemies, control.
1931. Entomological service. Palestine Dept. Agr. and Forests Rept. 1927-30:48-55. (Ceroplastes rusci on figs, pp. 53-54.) Abstracted in: Rev. Appl. Ent. 20:351. Dormant spray of lime-sulfur of no avail; fumigation in November resulted in 96.2% kill on 486 trees.

Bondar, Gregorio

1913. Os insetos damninhos da agricultura. (São Paulo) Bol. de Agr. (14 ser.) (1):28-42. Figures 1-16. Also in: Publ. da Sec. Agr., Indus. e Commercio, São Paulo. 18 pp. Illus. (Pragas da figueira cultivada.) Abstracted in: Exp. Sta. Rec. 30:454. General account; especial injury done by four coleopterous and two lepidopterous borers, also by the coccid, Morganella maskelli.
1920. Como combater a lagarta dos galhos da figueira. Chacaras e Quintaes (São Paulo) 21:108-9. 1 figure. Abstracted in: Rev. Appl. Ent. 8:211. Azochis gripusalis causes serious injury, boring in the twigs.
1923. Notas biologicas sobre alguns buprestideos brasileiros do genero Colobogaster solier. (São Paulo) Mus. Paul. Rev. 13:1267-76. 8 figures. Abstracted in: Rev. Appl. Ent. 12:352. C. quadridentata attacking fig and other trees in Bahia.

1938. Insectos damninhos as fruteiras, da familia de moraceas. Bahia Rural 5:2177-80, 2286-88. Abstracted in: Rev. Appl. Ent. 29:391. Pests of cultivated fig mostly migrants from wild figs.

Borg, P.

1932. Report of the plant pathologist. Malta Dept. Agr. Ann. Rept. 1931-32:15-19. Ceroplastes rusci; figs severely attacked. Abstracted in: Rev. Appl. Ent. 20:666. See also: Rept. 1934-35:53-61. Ceroplastes controlled by Eublemma scitula. Abstracted in: Rev. Appl. Ent. 24:800.

Boselli, F. B.

1928. [Contribution to the knowledge of the fig psyllid (Homo-toma ficus L.)] (In Italian.) Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 21:218-51. Abstracted in: Rev. Appl. Ent. 17:458. Historical account with description of all stages; attacks both figs and caprifigs.

1933. Contro l'Ephestia cautella (farfalla dei fichi secchi.) Picentino, Salerno 89(1-3):9-23. Abstracted in: Rev. Appl. Ent. 21:429. Other warehouse insects also discussed.

Bouhelier, R., and E. Hudault

1943. Contribution à l'étude du bromure de méthyle utilisé pour la désinsectisation des produits végétaux. Casablanca Chamb. Agr. Bul. 14:9-13. Abstracted in: Rev. Appl. Ent. 34:65. Figs successfully treated under a partial vacuum.

Brain, C. K.

- 1918-1920. The Coccidae of South Africa. Bul. Ent. Res. 9:107-39, 197-239. (Fig, pp. 119, 127, 201); 10:95-128. (Fig, p. 120); 11:1-41. (Fig, p. 33.) A food plant of five coccids; one, Ceroplastes pallidus, a new species.

1929. Insect pests and their control in South Africa. 468 pp. Die Nasionale Pers Beperk, Cape Town. (Fig insects, pp. 113, 130, 253, 352.) A jassid sucks sap from young figs; Pseudococcus filamentosus common; Ephestia cautella on dried figs; Blastophaga introduced, but culture of Smyrna type fig not encouraged.

Brethes, J.

1920. Insectos utiles y daninos de Rio Grande do Sul y de La Plata. Soc. Rural Argentina An. 54:281-90. Abstracted in: Rev. Appl. Ent. 8:299. Ammalo helops injurious to fig trees.

Brues, C. T., A. L. Melander, and F. M. Carpenter

1954. Classification of insects. 917 pp. Museum of Comp. Zoology, Cambridge, Mass. (Blastophaga, p. 635.)

Brundage, O. G.

1929. Mediterranean fig scale. California Fig Growers Ann. Inst. Proc. 13:9-10. A popular account.

Buxton, P. A.

1920. A liparid moth (Ccnerogyia amanda Stand.) destructive to figs in Mesopotamia. Bul. Ent. Res. 11:181-86. Pl. 1, figure 1. Larvae devour fig leaves at night near Baghdad; attacks sporadic.
1924. Applied entomology of Palestine. Bul. Ent. Res. 14:289-339. Illus. Abstracted in: Rev. Appl. Ent. 12:227. (Trioza buxtoni on fig, p. 333.)

Bytinski-Salz, H.

1953. Two important tree borers in Israel. (FAO) Plant Protect. Bul. 1:38-39. Fig trees infested by Batocera usually die in two or three years.

Canevari, A.

1913. Malattie e parassiti delle principali piante coltivate e loro rimedii. 374 pp. Fr. Battiato, Catania. (Parassiti del fico, pp. 308-11.) Tuberculosis, gummosis, Cercospora, and various insects.

Chaine, J.

1910. Termites and living plants. Soc. de Biol. (Paris) Compt. Rend. 68:328-30, 486-87, 849-51. Fruit trees attacked include fig.

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Cherian, M. C.

1938. Mite pests of crops in South India and methods for their control. Agr. Livestock India 8:537-40. Abstracted in: Rev. Appl. Ent. 27:127. Tetranychus fici attacks leaves and fruits of figs.

Cherian, M. C., and P. Israel

1939. Notes on Perina nuda Fabr. and its natural enemies. Madras Agr. Jour. 27:203-7. Abstracted in: Rev. Appl. Ent. 28:269. Occasionally damages fig trees in India.

Chimenti, E.

1919. La cochenille du figuier en Calabre. Algerie Govt. Gen. Bimens. Off. Bul. 25:159. Abstracted in: Rev. Appl. Ent. 8:35. Lepidosaphes ficus causes sooty fungus; natural enemies not sufficient to control it.

Chittenden, F. H.

1911. The fig moth (Ephestia cautella). U. S. Dept. Agr. Bur. Ent. Bul. 104:1-40. Figures 1-4. Pls. 1-4. A technical account of the species and its occurrence in America.

Chorley, J. K.

1932. Report of the chief entomologist for the year ended Dec. 31, 1931. Rhodesia Agr. Jour. 29:522-24. Ceronema africana on fig. Abstracted in: Rev. Appl. Ent. 20:555.

Cimatti, V.

1913. Le cocciniglie e i pidocchi degli agrumi, olivo e fico. Riv. di Agr. Parma 19:468-69. Abstracted in: Rev. Appl. Ent. 1:380. Five species briefly described.

Clausen, C. P.

1915. Mealy bugs of citrus trees. California Agr. Exp. Sta. Bul. 258:19-46. 8 figures. (Pseudococcus citrophilus on fig, p. 30.)

1931. Insects injurious to agriculture in Japan. U. S. Dept. Agr. Cir. 168:1-103. (Fig insects, p. 33.) Larvae of Margaronia brizoalis bore into fruit stalks; larvae of Phytometra chalyctes feed upon foliage; a borer inflicts serious damage to the trunk.

Cobb, M. A.

1927. Tylenchus penetrans Cobb, on fig roots. Jour. Parasitol. 14:71.

Colvee, Pablo

1822. Nuevos estudios sobre algunos insectos de la familia de los coccidos. Valencia. Reference in: Wien. Ent. Ztg. 2: 43.

Comstock, J. H.

1916. Report on scale insects. New York (Cornell) Agr. Exp. Sta. Bul. 372:425-603. Illus. (Fig, pp. 528, 584, 592.) Three species on fig.

Condit, Ira J.

1919. Insects that infest fig trees. Fresno Republ., Oct. 5. Dried-fruit beetle, Indian meal moth, vinegar flies.
1949. Fig rootstocks resistant to the garden nematode. California Fruit and Grape Grower 3(11):7-8. 1 figure. Use of Ficus glomerata and F. gnaphalocarpa for stocks.

Cotte, J.

1920. Deux parasites de la figue sauvage. Soc. de Path. Vég. France Bul. 7:26-30. Tylenchus sycobius n. sp., and Eriophyes ficus n. sp.

Cressman, A. W.

1935. Pests. U. S. Dept. Agr. Farmers' Bul. 1031:23-27. Fig pests: three-lined fig borer, mealybug, camphor scale, soft scale, birds, nemas.

Cressman, A. W., and H. K. Plank

1935. The camphor scale. U. S. Dept. Agr. Cir. 365:1-19. 7 figures. (Pseudaonidia duplex, on fig trees, p. 3.) Severe injury in Louisiana on unsprayed trees in 1930 and 1931.

Crossman, Louise, and J. R. Christie

1937. Lists of plants attacked by miscellaneous plant-infesting nematodes. Plant Dis. Rep. 21:144-67. (Fig, p. 153.) Pratylenchus pratensis listed only.

Cunningham, H. S.

1929. Report of Plant Pathologist. Bermuda Dept. Agr. Rept. 1928:26-28. Abstracted in: Rev. Appl. Ent. 17:562. Morganella longispina injury to figs; trees defoliated by fig rust.

Curran, C. H.

1926. The identification and control of adult lepidopterous insects attacking stored products. Sci. Agr. (Ottawa) 6:383-88. Ephestia figulilella occasionally in imported figs. Abstracted in: Rev. Appl. Ent. 14:478.

Cuscianna, N.

1927. Note morfologiche e biologiche sulla Simaethis nemorana. Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 20:17-34. Figures 1-11. Abstracted in: Rev. Appl. Ent. 15:271. A serious fig pest in Italy; natural enemies keep it in check.

Da Matta, A.

1927. Larvas de lepidopteros e fungo prejudiciaes ao ananaz, manacá, milho, e á figueira. Sciencia Med. 5:175-79. 3 pls. Abstracted in: Rev. Appl. Ent. 15:408. Caterpillars of Delphyre rufiventris injure foliage.

Davidson, J.

1935. Insects observed on crops in South Australia during period June 1932 to June 1934. So. Austral. Dept. Agr. Jour. 38:998-1003. (Leptocoris lurida attacking figs, p. 1001.) Abstracted in: Rev. Appl. Ent. 23:398. See also: Rev. Appl. Ent. 36:108.

Davis, J. J., and P. Luginbill

1921. The green June beetle or fig eater. N. Carolina Agr. Exp. Sta. Bul. 242:1-35. 9 figures, 2 tables. Good complete account.



Day, L. H., and E. F. Serr

1951. Comparative resistance of rootstocks of fruit and nut trees to attack by a root-lesion or meadow nematode. Amer. Soc. Hort. Sci. Proc. 57:450-54. Severe lesions on fig roots.

Délassus, M.

1924. Le pou rouge (Chrysomphalus dictyospermi, Chrysomphalus minor) en Algérie. Rev. Agr. de l'Afrique du Nord 22: 216-19, 232-36. 8 figures. Abstracted in: Rev. Appl. Ent. 12:265. Fig one of food plants.

1930. Les parasites des figues Algériennes les moyens à employer pour les combattre. In: Semaine du Figuier; Chemins-de-Fer Algériens de l'Etat. Compte-Rendu. See: pp. 55-66. Deals with Myelois ceratoniae, Ephestia kuehniella, Ceroplastes rusci, time and method of infestation, control.

Delassus, M., et al.

1930. Les ennemis des cultures fruitières en Algérie. 197 pp. Typo-Litho, Algeria. (Les ennemis du figuier, pp. 167-76. Figures 90-97.) Several borers and scale insects discussed.

Della Beffa, G.

1935. Insetti osservati nella frutta e negli ortaggi dei mercati di Torino. Difesa delle Piante contro Mal. ed i Parassiti 12(3):77-85. Ephestia calidella, E. cautella, E. kuehniella, Carpophilus hemipterus, Cryptophagus pilosus, and Atomaria atricapilla, found in figs. Abstracted in: Rev. Appl. Ent. 23:707.

De Ong, E. R.

1918. Dried fruit insects. California Conn. Hort. Monthly Bul. 7:429. A few species and their control.

De Seabra, A. F.

1918. Observations sur quelques espèces de cochenilles du Portugal. Soc. Portug. de Sci. Nat. Bul. 8:72-81. Abstracted in: Rev. Appl. Ent. 7:6. Ceroplastes rusci found wherever figs are grown in Portugal; frequently destroyed by Chilocorus renipustulatus.

Deshusses, J., and L. Deshusses

1935. Presence de Ceratitis capitata Wied., diptere nuisible aux cultures fruitières dans la région de Genève. Soc. de Phys. et Hist. Nat. Genève Compt. Rend. 52:201-3. Abstracted in: Rev. Appl. Ent. 24:360. In figs from France.

De Stefani, T.

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1916. Intorno agli insetti che frequentano i fichi ammalati di seccume nella Provincia di Palermo. Acireale R. Staz. Sper. di Agrumic. e Fruttic. Ann. 4:1-5. Abstracted in: Rev. Appl. Ent. 7:413. Insects which might carry bacteria causing dry wood disease.

Donohoe, H. C.

1938. Nests of leaf-cutting bees in dried figs. Washington Ent. Soc. Proc. 40:15-16. Bee identified as Anthidium maculatum makes cases in cavity of fig fruit.

Donohoe, H. C., and D. F. Barnes

1934a. Notes on field trapping of Lepidoptera attacking dried fruit. Jour. Econ. Ent. 27:1067-72. Bait of malt sirup and water.

1934b. Notes on host materials of Ephestia figulilella Gregson. Jour. Econ. Ent. 27:1075-77. Fig a field host.

Donohoe, H. C., et al.

1934. Experiments in the exclusion of Ephestia figulilella Gregson from drying fruit. Jour. Econ. Ent. 27:1072-75. Use of tobacco shade cloth.

1937a. The importance of mulberries in raisin moth control. California Dept. Agr. Bul. 26:339-40. Mulberry a common host.

1937b. The use of shade cloth to exclude the raisin moth from drying fruits. California Dept. Agr. Bul. 26:205-6. Covering trays to prevent infestation.

1943. Preventing damage to commercial dried fruits by the raisin moth. U. S. Dept. Agr. Leaflet 236:1-6. Illus. (Control in figs, pp. 5-6.) See also: California Cult. 91: 382. Suggests prompt gathering, fumigation before figs are spread on trays, and protection of stacked trays by shade cloth.

1949. Biology of the raisin moth. U. S. Dept. Agr. Tech. Bul. 994:1-23. Illus. (Figs, pp. 3, 9, 10, 11.) Complete account.

Doutt, R. L.

1951. Biological control quarantine. California Agr. 5(9):3. Illus. Parasites of fig scales introduced.

1954. Biological control of fig scale. California Agr. 8(8):13. 1 figure. From 67 to 100% of scale at colonization sites found parasitized by Aphytis "C".
1955. Parasites of the fig scale. California Fig Inst. Ann. Res. Conf. Proc. 9:31. Physcus testaceus not yet established; Aphytis established but not efficient on summer form of scale.

Dowson, V. H. W.

1935. Notes on the resistance of the fig moth, Ephestia cautella, to cold. Trop. Agr. (Trinidad) 12:225. Moths remain alive for 85 days at 35° to 43° F.

Dozier, H. L.

1924. The Japanese camphor scale. Alabama Polytech. Inst. Ext. Serv. Cir. 75:1-15. 15 figures. Pseudonidia duplex not a serious fig pest. Abstracted in: Rev. Appl. Ent. 13:185.
1926. Annual report of the Division of Entomology. Puerto Rico Insular Exp. Sta. Ann. Rept. 1924-25:115-24. Asterolecanium pustulans on fig. Abstracted in: Rev. Appl. Ent. 15:152.

Ebeling, Walter

1944. Problemas relacionados con las pestes que afectan a los citrus y otras plantas subtropicales en Chile. Agr. Téc. Chile 5:197-211. (Fig, p. 208.) Abstracted in: Rev. Appl. Ent. 35:353. Graphioothrips stuardoi only important pest of fig.
1950. Subtropical entomology. 700 pp. Lithotype Process Co., San Francisco. (Fig pests, caprification, Chap. 24, pp. 616-31. Figures 482-503.)
1955. Laboratory evaluation of insecticides against the vinegar fly. California Fig Inst. Ann. Res. Conf. Proc. 9:34-36.

Ebeling, Walter, and R. J. Fence

1950. A severe case of an uncommon type of injury by the fig mite. California Dept. Agr. Bul. 39:47-48. 2 figures. Injury to terminal buds; severe leaf drop.

Ebeling, Walter, et al.

1955. Progress in control of the vinegar fly. Panel discussion. California Fig Inst. Ann. Res. Conf. Proc. 9:41-46.

Ehrhorn, E. M.

1913. Report of the Superintendent of Entomology. In: Hawaii Bd. Agr. and For. Rept. 1912:101-51. (Ceratitis capitata in figs, p. 133.) See also: Rept. 1914:133-42. (Isencococcus nipae on young figs, p. 138.)

1926. Note. Hawaii Ent. Soc. Proc. 9:128. Asterolecanium pustulans on branch of fig; heavily infested.

Essig, E. O.

- 1913a. The branch and twig borer. California Conn. Hort. Monthly Bul. 2:587-89. Polycaon confertus on fig.
- 1913b. The western twig borer. California Conn. Hort. Monthly Bul. 2:681-84. 3 figures. In dead fig-tree branches.
1914. The mealybugs of California. California Conn. Hort. Monthly Bul. 3:97-143. (Pseudococcus longispinus on fig, p. 119.)
- 1915a. The dried-fruit beetle, Carpophilus hemipterus. Jour. Econ. Ent. 8:396-400. 4 figures. Description, life history, food habits, control.
- 1915b. Injurious and beneficial insects of California. (2d ed.) 351 pp. Illus. California State Pr. Office, Sacramento. California Conn. Hort. Monthly Bul. 4(4). Supplement. (Fig, see host index, p. XXXV.)
1920. Important dried fruit insects in California. California Dept. Agr. Bul. 9:119-25. 5 figures. Indian meal moth, fig moth, various beetles, control.
- 1922a. The dried-fruit beetle. Jour. Econ. Ent. 15:260. Carpophilus hemipterus nowhere as serious as Plodia interpunctella; relation to smut and souring.
- 1922b. Note on two new blister mites. California Dept. Agr. Bul. 11:466. Eriophyes fici on fig.
- 1926a. Insects of western North America. 1035 pp. The Macmillan Co., New York. (Fig mite, p. 47; Mediterranean scale, p. 306; fig moth, p. 711; fig wasps, p. 815.)
- 1926b. Spraying for pear leaf blister mite and fig mite. Blue Anchor 3(11):10.
1931. A history of entomology. 952 pp. The Macmillan Co., New York. (Fig, see index.)
1938. Aphids feeding on celery in California. Hilgardia 11: 459-92. (Lily aphid, Myzus circumflexus, on fig, p. 478.)

Essig, E. O., and W. M. Hoskins

1934. Insects and other pests attacking agricultural crops. California Agr. Ext. Serv. Cir. 87:3-147. (Fig, pp. 52-53. Figures 51-52.) Rev. ed. Jan. 1944. (Fig, pp. 69-70. Figure 84.) Nematode, fig scale, and vinegar fly.

Essig, E. O., and Elizabeth H. Smith

1922. Two interesting new blister mites. California Dept. Agr. Bul. 11:63. Eriophyes on figs.

Fenaroli, A.

1945. Esteri ciclici dell'acido solfocianacetico. Bol. di Zool. Agr. e Bachic. 13. Fasc. 1. 39 pp. Milan. Abstracted in: Jour. Appl. Ent. 36:252. Dusts on young fig shoots harmless at concentrations of 6 and 4 per cent.

Fernald, Maria E.

1903. A catalogue of the Coccidae of the World. 360 pp. Carpenter and Morehouse, Amherst, Mass. (Ceroplastes rusci, p. 156; Lepidosaphes ficus, p. 308.) Long list of synonyms.

Ferris, G. F.

- 1937-1938. Atlas of the scale insects of North America. 2 series. Stanford Univ. Press. (Lepidosaphes ficifoliae, Ser. 1:73; Ser. 2:144.) A general account; difference between two noted.

Feytaud, J.

1914. Les insectes xylophages de la vigne. Rev. de Vitic. (Paris) 41:5-7, 41-45, 94-99. Abstracted in: Rev. Appl. Ent. 2:195. Cossus cossus and Apaté sexdentata on fig; larvae dug out with wire.

Filipjev, I. N., and J. H. Schuurmans Stekhoven

1941. A manual of agricultural helminthology. E. J. Brill, Leiden. Fig a host of Heterodera marioni and of Pratylenchus pratensis.

Fisher, C. K.

1952. Control of raisin moth in the dry yard. California Fig Inst. Ann. Res. Conf. Proc. 6:6.

Fisher, C. K., G. B. Wheeler, and R. M. Warner

1952. Residual action of dieldrin and aldrin in fig orchard soils. California Fig Inst. Ann. Res. Conf. Proc. 6:12-13.

Flanders, S. E.

1942. The introduction of Phyiscus testaceus into California. Jour. Econ. Ent. 35:290. Several hundred specimens from Italy but only 80 females arrived in a living condition; liberations made at Clovis but no recoveries secured later.

Fletcher, T. B.

1914. Some South Indian insects. 565 pp. Govt. Press, Madras. (Fig, p. 400.) Hypsa ficus, an occasional defoliator of fig trees.



- 1916a. Agricultural entomology. India Bd. Sci. Advice Ann. Rept. 1914-15. 15 pp. Calcutta. Abstracted in: Rev. Appl. Ent. 4:225-26. Batocera rubus boring in fig; life cycle covers a year.
- 1916b. One hundred notes on Indian insects. Pusa Agr. Res. Inst. Bul. 59:1-39. 20 figures. Abstracted in: Rev. Appl. Ent. 4:438-39. Adoretus versutus and A. horticola on leaves of fig.
1919. Report of the Imperial Entomologist. Pusa Imp. Inst. Agr. Res. Sci. Repts. 1918-19:86-103. Abstracted in: Rev. Appl. Ent. 8:83-84. Aclees cribratus boring in main stems of fig trees. See also: Repts. 1921-22:51-67. 3 plates. Abstracted in: Rev. Appl. Ent. 11:102. Carpophilus nitidulus in dried figs.
1920. Life-histories of Indian insects: Microlepidoptera. India Dept. Agr. Mem., Ent. Ser. 6(1-9). 217 pp. 68 pls. Stathmopoda sycastis damages edible figs. Abstracted in: Rev. Appl. Ent. 9:272.

French, C.

1909. A handbook of the destructive insects of Victoria. 5 parts. Osboldstone and Co., Melbourne. (The orange and fig tree borer, Part 4:89-92. Pl. 74. Bostrychopsis jesuita Fabr.) Prevent female from laying eggs by a deterrent spray.

Friend, A. H.

1949. A consideration of the fruit fly problem and some details of recent control tests. N. S. Wales Agr. Gaz. 60:35-39. Abstracted in: Rev. Appl. Ent. 38:482. Experiments on fig trees.

Froggatt, J. L.

1924. Entomological notes. Queensland Agr. Jour. 21(pt.2):120-23. 3 figures. (Galeruca semipullata and Monohammus mixtus on figs, p. 123.)

Froggatt, W. W.

1891. A fig-tree pest. Leaf beetle (Galeruca semi-pullata). California Fruit Grower 8(18):273.
- 1899a. Entomological notes for 1898. N. S. Wales Agr. Gaz. 10: 873-79. Fig leaf beetle, Galeruca semi-pullata skeletonizes leaves.
- 1899b. Fig branch borer (Hylesinus porcatus.) N. S. Wales Agr. Gaz. 10:268-69. 1 figure. Beetles bore into twigs at leaf axils.

1919. The passion vine longicorn beetle, Monohammus fistulator. N. S. Wales Agr. Gaz. 30:37-39. 4 figures. Ered from fig branches in Sydney.

Fuller, Claude

1901. Report of the Government Entomologist. Natal Dept. Agr. Govt. Ent. First Rept. 1899-1900. 154 pp. (The fig-tree longicorn, Phryneta spinator, p. 69.) See also: 4th Rept. 1903-1904. 17 pp. Abstracted in: Exp. Sta. Rec. 18:58. (The fig curculio, Metatygus turritus, pp. 11-13. Pl. 1.)

Gavalov, I. I.

1927. /On some injurious insects observed in the Crimea, 1922-25./ (In Russian.) Acta. Soc. Ent. Stauropol. 3(1):8-16. Abstracted in: Rev. Appl. Ent. 15:512. Hemerophila (Simaethis) nemorana on leaves and young fruits of figs.

Gennadius, P. G.

1880. Nouveau procédé pour la destruction du kermes du figuier (Ceroplastes rusci.) Acad. des Sci. (Paris) Compt.-Rend. 91:914-16. In Messina growers wash limbs with sea water.

Ghawabi, Abdel A. E.

1928. The Mediterranean fruit fly. Agr. Jour. Egypt (n.s.) 2(1924-25):111-36. Fig one of host plants.

Ghesquiere, J.

1949. La mouche noire des figues, à la Côte d'Azur. Acad. d' Agr. de France Compt.-Rend. 35:650-53.
1950. Un parasite de la Ceratitis capitata Wied. en France. Soc. Ent. de France Bul. 55:66-68. Abstracted in: Rev. Appl. Ent. 40:361. At Mentone fig harvest almost entirely destroyed by this fruit fly and by Lonchaea aristella.

Giffard, W. M.

1912. Report on fruit fly control. Hawaii. Forester and Agr. 9:28-31. Fig a food plant.

Girard, Maurice

1880. Note sur deux insectes. (Hemipteres homopteres et coleopteres.) Acad. des Sci. (Paris) Compt. Rend. 91:914-16.

Goodey, T.

1933. Plant parasitic nematodes. 306 pp. E. P. Dutton and Co., New York. (Fig host plant for Heterodera marioni, p. 185; Anguillulina pratensis, p. 115.)
1940. The nematode parasites of plants catalogued under their hosts. 80 pp. Imperial Bur. of Agr. Parasitology. (Ficus carica, p. 23.) References to N. A. Cobb 1927, J. C. Neal 1889.

Gowdey, C. C.

1922. Annual report of the Government entomologist. Jamaica Dept. Agr. Ann. Rept. 1921:4C-41. Tetrapriocera tridens on figs.

Grandi, Guido

1930. Il Sinoxylon sexdentatum Oliv. e i cavi telefonici. Soc. Ent. Ital. Bol. 62:17-19. Abstracted in: Rev. Appl. Ent. 18:291. Prefers figs and vines.
1951. Introduzione allo studio dell'entomologia. 2 vols. Ediz. Agricole, Bologna. See index for Blastophaga, Carpophilus, Lonchaea, and other fig insects.

Green, E. E.

1916. On two new British Coccidae with notes on some other British species. Ent. Monthly Mag. 52:23-31. 4 figures. Abstracted in: Rev. Appl. Ent. 4:123. Lepidosaphes ficus on fig in plant house at Wisley.
1923. Observations on the Coccidae of the Madeira Islands. Bul. Ent. Res. 14:87-97. (Ceroplastes denudatus, Aspidiotus lataniae on fig, pp. 88, 89.)
1928. Observations on British Coccidae. Ent. Monthly Mag. 64: 20-31. 6 figures. (Fig, p. 31.) Pseudococcus maritimus at the base of fig fruits under glass.

Gregson, C. S.

1871. Description of an Ephestia new to science. Entomologist 5:385. E. figulilella n. sp. Short technical account; bred upon figs and raisins.

Griep, E.

1937. Trogoxylon impressum Com. ein wenig bekannter Vorrats-schädling. Märk. Tierw. Berlin 2:223-25. Abstracted in: Rev. Appl. Ent. 25:443. In wood of fig trees, Alsace.

Grünberg, A.

1938. The Mediterranean fruit-fly in the Jordan valley. Bul. Ent. Res. 29:63-76. (Fig, p. 66.) Figs attacked from April to July; together with Lonchaea may cause substantial damage.

Guénaux, Jorge

1943. Entomología y parasitología agrícolas. (5th ed.) Rev. por Jose del Canizo. 664 pp. Salvat Ed., Barcelona. (Higuera, pp. 281, 297, 339, 506, 632.) Simaethis nemorana on leaves, Sinoxylon and Hylotrupes in wood, Carpoglyphus on dry figs.

Gunn, D.

1916. Some destructive fruit and flower beetles. Union So. Africa Dept. Agr. Div. Ent. Bul. 8:1-8. Cetonids on figs.
1919. The fig and willow borer (Phryneta spinator). Union So. Africa Dept. Agr. Bul. 6:1-22. 16 figures. Abstracted in: Rev. Appl. Ent. 8:69; Exp. Sta. Rec. 42:454; 45:558. Good account.
1926. The fig tree borer. Protecting the tree trunks. Farming in So. Africa 1:151. See also: 5:312. Abstracted in: Rev. Appl. Ent. 19:176.
1929. Fruit piercing moths. Farming in So. Africa 3:1263-64. Abstracted in: Rev. Appl. Ent. 17:351. Three species, Achaea lienardi, Serrodus partita, and Sphingomorpha chlorea, attack fruits including figs.

Habib, A.

1943. The biology and bionomics of Asterolecanium pustulans. Soc. Fouad Ier Ent. Bul. 27:87-111. Abstracted in: Rev. Appl. Ent. 33:226. Infestation of figs severe in parts of Egypt.

Hagan, H. R.

1929. The fig-insect situation in the Smyrna fig district. Jour. Econ. Ent. 22:900-9. Observations June to August, 1928; good account of various insects.

Haines, G. C.

1927. Entomological notes No. 35. The fig curculio. Omophorus stomachosus. Farming in So. Africa. (April) 3 pp. 6 figures. Abstracted in: Rev. Appl. Ent. 16:304. Hand-picking of adults practiced; infected portions of figs conspicuous as blackened spots of egg pits.

Hall, W. J.

1922. Observations on Coccidae of Egypt. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 22:17-18. (Fig scale.)
1925. Notes on Egyptian Coccidae with description of new species. Egypt Min. Agr. Tech. and Sci. Serv. Bul. 64: 1-31. 6 pls. Abstracted in: Rev. Appl. Ent. 14:119. Aspidiotus ostreaeformis var. aegyptiacus, on fig.

Hamlin, J. C.

1932. An inquiry into the stability and restriction of feeding habits of certain cactus insects. Ent. Soc. Amer. Ann. 25:89-120. 3 figures. Abstracted in: Rev. Appl. Ent. 20:363. Figs satisfactory food for various species.

Hamlin, J. C., and W. D. Reed

1927. Vitula serratilineella Ragonot, on dried fruit in California. Jour. Econ. Ent. 20:840. On figs.

Hamlin, J. C., W. D. Reed, and M. E. Phillips

1931. Biology of the Indian meal moth on dried fruits in California. U. S. Dept. Agr. Tech. Bul. 242:1-26. Complete account.

Nardy, C. H.

1946. The battle for production in Yolo County. California Dept. Agr. Bul. 35:154-55. Darkling ground beetle and dried fruit beetle on figs; grasshopper bait used for control.

Hart, W. H.

1951. Root lesion nematodes in California. California Dept. Agr. Bul. 40:85-92. Figures 1-5. (Fig, p. 86.)  
Pratylenchus vulnus on fig.

Hassan, A. S.

1928. The biology of the Eriophyidae with special reference to Eriophyes tristriatus. California Univ. Pubs. Ent. 4: 341-94. Illus. (Eriophyes fici, pp. 364, 374.)

1934. Notes on the Eriophyidae of Egypt. Soc. Roy. Ent. d'Egypte Bul. 27:440-44. Figures 1-3. Fig mite.

Hayward, K. J.

- 1942a. Departamento de Entomología report. Tucuman Indus. y Agr. Rev. 32:45-55. Abstracted in: Rev. Appl. Ent. 31:41. Pachylia ficus on fig. See also: 1944 Report. Rev. 34: 151-65. Abstracted in: Rev. Appl. Ent. 35:64. Saissetia oleae on fig.

- 1942b. Primera lista de insectos Tucumanos perjudiciales. 110 pp. Tucuman Publ. Misc. (Higuera, see index.) Long list of insects.

Hempel, A.

1920. Um inimigo importante da figueira cultivada, Ituna ilione Cramer. Chacaras e Quintaes (São Paulo) 21:373-74. 1 figure. Abstracted in: Rev. Appl. Ent. 8:366. Caterpillars attack leaves; collected by hand or controlled by spray.

Herbert, F. B.

120. Western twig pruners. Jour. Econ. Ent. 13:360-62. Polycaon confertus and Apate punctipennis on fig.



Hermes, W. B.

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Hewitt, J. Lee

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Holder, C. H.

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Hopkins, A. D., and T. E. Snyder

1917. Powder-post damage by Lyctus beetles to seasoned hardwood. U. S. Dept. Agr. Farmers' Bul. 778:1-20. L. parallelipipedus in dead fig wood.

Horn, C. L.

1931. Report of the horticulturist. Virgin Islands Agr. Exp. Sta. Rept. 1930:7-10. Control of Asterolecanium pustulans on fig.

Horton, J. R.

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1919. Insect pests of figs. U. S. Dept. Agr. Farmers' Bul. 1031:28-34. Includes three-lined fig tree borer, mealybug, soft brown scale, birds, nematodes.

Howard, B. J.

1933. The influence of insects in the souring of figs. Jour. Econ. Ent. 26:917-18. Figs sealed with Tangle-foot and enclosed in cloth bags; insects excluded; practically no souring.

Howard, C. W.

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Howard, L. O.

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Hull, F. M.

1929. Some possible means of control of the damage caused by the cotton leaf worm moth to the fig. Jour. Econ. Ent. 22:792-96. Swarms of moths cause souring; poison baits for control.

Hume, H. H.

1929. Mediterranean fruit fly situation. Florida State Plant Bd. Monthly Bul. 14(2):29-42. Figs in Spain wormy.

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Husain, M. A., and M. A. W. Khan

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1937. Report on the work of the entomological division. Ceylon Director of Agr. Admin. Rept. 1936:D 22-28. (Apogonia sp. on fig, p. 23.)

Ihering, H. von

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Isaakides, C. A.

1930. Hellenic republic: locust control. Internatl. Inst. Agr. Bul. Plant Protect. 4:113-15. Abstracted in: Rev. Appl. Ent. 19:82. Calliptamus italicus, and Doclostaurus maroccanus on fig tree.

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- 1922-1923. Insect pests of fruits other than citrus in Southern Rhodesia. Rhodesia Agr. Jour. 19:569-82, 664-74. 9 plates; 20:59-72. 4 pls. Also in: Rhodesia Dept. Agr. Bul. 450. 40 pp. 13 pls. Abstracted in: Rev. Appl. Ent. 11:238. Omophorus stomachosus, the commonest cause of stung figs.
1935. The report of the Chief Entomologist for the year ending Dec. 31, 1934. Rhodesia Agr. Jour. 32:558-66. Also in: Rhodesia Min. Agr. 962:1-9. Omophorus stomachosus on cultivated figs. Abstracted in: Rev. Appl. Ent. 23:690.
1942. Report of the Division of Entomology (So. Rhodesia) for the year 1941. 19 pp. Abstracted in: Rev. Appl. Ent. 31: 86-87. Omophorus stomachosus on figs.

Jackson, Sheldon

1944. Fig scale control. California Cult. 91:183. Oil spray plus spreader during dormant period.

Jacquet, J., and S. Bonnamour

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Jenkins, C. F. H.

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Joubert, C. J.

1943. Mealy bugs on vines. So. Afr. Dept. Agr. For. Bul. 243: 1-20. Illus. Abstracted in: Rev. Appl. Ent. 32:356. Pseudococcus maritimus on figs.

Kaloyereas, Socrates

1932. Experiments in fig fumigation (In Greek.) Greek Acad. of Science Proc. 7. Pages 1-4. Mixture of carbon dioxide and carbon bisulfide used.

Keifer, H. H.

1938. Eriophyid studies. II. California Dept. Agr. Bul. 27: 301-14. Illus. (Eriophyes fici, pp. 303-4.) From capri-figs at Fresno; nomenclature.
1939. Eriophyid studies. III. California Dept. Agr. Bul. 28: 144-62. (Rhyncaphytoptus ficifoliae Keifer, n. sp., p. 150.) From undersides of fig leaves near Sacramento; technical description.
1941. Systematic entomology. California Dept. Agr. Bul. 29:241-45. Fig scale on elm, walnut, rose. See also: Bul. 37: 205-12. 1948. (Fig, p. 207.) The vegetable weevil, Listroderes obliquus, damaged lower leaves of fig trees in Merced County.

Kemmer, Donald A., and R. M. Warner

1954. Further work on soil treatments for insect control in fig orchards. California Fig Inst. Ann. Res. Conf. Proc. 8:33-34.

Kemner, N. A.

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Kemper, H.

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- King, C. J., and H. F. Loomis  
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- King, H. H.  
1911. Report of the entomological section. Gordon Mem. Col. Khartum, Wellcome Res. Lab. Rept. 4(B. Gen. Sci.):95-150. Fig stem-boring beetle, Sinoxylon sudanicum. Reference in: Exp. Sta. Rec. 27:54.
- Kinsley, C. H.  
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- Kiriukhin, G.  
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- Klose, Nelson  
1948. Fig, wasp, and man. Frontiers 13:36-39. 3 figures.
- Kojima, T.  
1929. Immature stages of some Japanese cerambycid beetles. Tokyo Imp. Univ. Col. Agr. Jour. 10:101-28. Abstracted in: Rev. Appl. Ent. 17:565. Batocera lineolata attacks figs.  
  
1930. Fig tree borer and its control. (In Japanese.) Nippon Engei zasshi (Jap. Hort. Mag.) 42(2):20-24.
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1940. A new method for control of fig borers. (In Japanese.) Agr. and Hort. 15:168-70. Abstracted in: Rev. Appl. Ent. 28:267. Insecticides injected into mines of longicorns.
- Kuwana, Inokichi  
1925. The diaspine Coccidae of Japan. II. The genus Lepidosaphes. Dept. Finance, Japan Imperial Fl. Quar. Service Tech. Bul. 2. 42 pp. 11 pls. (L. conchiformis, pp. 5-7, on pear.) Short account; L. ficus on fig in California may be same.



Laing, F.

1924. A new psyllid injurious to fig trees. Bul. Ent. Res. 14: 247. 1 figure. Trioza buxtoni n. sp., in galls on the leaves of fig.

Langronier, Ch.

1941. Ceratitidis capitata dans les oasis sahariennes. Soc. d'Hist. Nat. Afrique du Nord Bul. 31:157-59. (Figuier, p. 158.) Abstracted in: Rev. Appl. Ent. 29:616.

Lantz, D. E.

1910. Pocket gophers as enemies of trees. U. S. Dept. Agr. Yearbook 1909:209-18. Roots of fig trees most subject to attacks.

Lea, A. M.

1927. South Australian plant weevils. So. Austral. Dept. Agr. Jour. 30:582-98. Brachyrhinus cribricollis on fig; leaves nibbled by this curculio.

Lebert, C. D.

1931. Arizona insect pest report of 1929-30. Arizona Conn. Agr. Hort. 21st and 22nd Rept. 1929-31:54-64. Abstracted in: Rev. Appl. Ent. 20:188. Cotinis texana causes considerable damage to figs in August.

Lefroy, H. M.

1915. The control of white fly and soft scale. Gard. Chron. 58:154. Coccus hesperidum on fig.

Lemmon, Allen B.

1950. Bureau of Chemistry. In: California Dept. Agr. Bul. 39: 279-318. (Fig, p. 314.) 1,180 acres figs treated from air. Same: Bul. 40:273. Fig acreage treated by aircraft 3,295; Bul. 41:348. Fig acreage treated 1,712; Bul. 42: 341. Fig acreage treated 4,012.

Leonard, M. D.

1925. Notes on the embargo of grapes from Almeria, Spain, on account of the Mediterranean fruit-fly. Jour. Econ. Ent. 18:257-65. Abstracted in: Rev. Appl. Ent. 13:330. (Figs, pp. 260, 261, 263.) Figs found infested.

Leonardi, Gustavo

1920. Monografia delle cocciniglie italiane. 555 pp. Ernesto della Torre, Portici. (Pseudococcus ficus, p. 441; Lepidosaphes conchiformis, p. 163; L. ficifoliae, p. 174.)

Lichtenstein, J. L., and F. Picard

1917. Étude morphologique et biologique du Sycoster lavagnei, hecabolide parasite del Hypoborus ficus. Bul. Biol. de la France et Belg. 51:440-74. Abstracted in: Rev. Appl. Ent. 6:328. Three or four generations of H. ficus; parasitized by two chalcids and other species.

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Linsley, E. G., and A. E. Michelbacher

1943. Insects affecting stored food products. California Agr. Exp. Sta. Bul. 676:1-44. Figures 1-21. (The fig moth, p. 29.) Short account.

Lizer y Trelles, C. A.

1936. Algunas cochinillas nuevas para la fauna de la Republica Argentina. Physis 12:113-16. Aspidiotus ostreaeformis on fig. Abstracted in: Rev. Appl. Ent. 24:665.

Locan, Frank G.

1937. Mediterranean fig scale. California Fig Institute Unnumbered Bul. Feb. 1. 2 pp. 2 figures.

Lockwood, Stewart

1933. Insect and mite scars of California fruits. California Dept. Agr. Bul. 22:319-45. Also in: Blue Anchor 11(4):6. 1934. (Mediterranean fig scale, p. 327.) Brief notes.
1940. Field entomology. In: California Dept. Agr. Bul. 28:539-45. (Fig, p. 545.) 1,115 acres treated by airplane.
1946. Incidence of insect pests by counties in 1946. California Dept. Agr. Bul. 35:199-206. (Fig, p. 205.) Treated by airplane, 2,040 acres. See also: Bul. 36:158-66. 1947. (Fig, p. 166.) 2,035 acres treated by airplane; Bul. 37:233-43. 1948. (Fig, p. 242.) 2,516 acres treated; Bul. 38:206-9. 1949. (Figs, p. 207.) 271 acres treated.
1948. Incidence of insect pests in 1948. In: California Dept. Agr. Bul. 37:227-33. (Fig, p. 230.) Fig scale heavy in Merced, light in Fresno, from light to heavy in Tulare County. See also: Bul. 38:190-203. 1949. (Cotinis texana increasingly serious to figs, p. 195.)

Lounsbury, C. P.

1896. Fig beetle, Phryneta spinator. Agr. Jour. Cape Colony 9: 361-62. Destructive attacks in South Africa.
1913. Mally fruit fly remedy. A demonstration of its applicability in towns. Union So. Africa Dept. Agr. Jour. 5:570-74. Figs included.
1915. Insect pests and insecticides. Pp. 65-83. In: H. E. V. Pickstone. Hints on fruit growing. (6th ed.) Cape of Good Hope. Fig insects; curculio, twig borer, stem borer, gall-worm, scale. See also: edition of 1928, p. 76.

Lupo, Vincenzo

1945. Il Mytilococcus ficifoliae (Berlese) e una forma estiva del M. conchiformis (Gmelin). Portici R. Lab. di Ent. Agr. Bol. 5:196-205. Figures 1-8. Abstracted in: Rev. Appl. Ent. 35:284.

McBeth, Clyde W.

1949. Nematodes affecting figs. California Fig Inst. Ann. Res. Conf. Proc. 3:16-17. Three species.
1952. Control of nematodes on figs. California Fig Inst. Ann. Res. Conf. Proc. 6:14-15.

McGregor, E. S.

1926. Report on the control of Mediterranean fig scale. California Peach and Fig Gr. Assoc. Blue Ribbon Inf. 2(2):3. Only two sprays giving kill of over 94%.
1950. Mites of the family Tetranychidae. Amer. Midland Nat. 44:257-420. (Fig, pp. 297, 348.) A host of Tetranychus pacificus and Paratetranychus pilosus.

McKenzie, Howard L.

1949. A new introduced diaspidid scale of possible economic concern in California. California Dept. Agr. Bul. 38: 123-26. (Ficus carica, one of the 50 food plants.)

McKeown, Keith C.

1942. Australian insects. 304 pp. Roy. Zool. Soc., Sydney, N. S. Wales. (Fig, pp. 122, 149, 152, 154, 174, 252.) Includes borers, leaf feeders; Blastophaga introduced.

Machmer, John H.

1949. Soil fumigation for the control of the root-knot nematode in peach, fig, and grape plantings. (Abstract.) Phytopathology 39:498. Fumigation with chloropicrin, and after-effects on trees.

Mackie, D. B.

1930. Entomological functions. California Dept. Agr. Bul. 19: 831-48. (Myelois venipars on fig fruits, p. 842.)
1931. A report of the coccids infesting avocados in California. California Dept. Agr. Bul. 20:419-41. Aspidiotus lataniae on fig in Ceylon, United States, and Syria.
1932. Ephestia figulilella Greg., a storage pest feeding upon fresh grapes. California Dept. Agr. Bul. 21:311-15. (On dried and fresh figs, pp. 311, 312, 315.) (See also: p. 482.)
1934. Entomological service. California Dept. Agr. Bul. 23: 396-418. Pseudoaonidia duplex on figs; Cotinis texana collected at Riverside for first time.
1935. Pest surveys. California Dept. Agr. Bul. 24:413-18. See also: 25:479. 1936. Peach beetle, Cotinis texana, plentiful on figs near Redlands; fruit first bird pecked in every case.
1938. Entomological service. California Dept. Agr. Bul. 27: 645. (Fig scale, p. 659.) Control by fumigation on increase.

Mackie, D. B., et al.

1942. Bureau of Entomology and Plant Quarantine. California Dept. Agr. Bul. 31:163-98. (Fig, pp. 173, 183, 187.) 2,040 acres dusted by plane; fig scale found on walnut.

Malenotti, E.

1928. Sulla sistematica dello Pseudococcus vitis Niedl., e sui rapporti biologici Simaethis nemorana. Accad. di Agr. Sci. e Lett. Verona Atti. 5:51-62. Abstracted in: Rev. Appl. Ent. 17:150. P. citri on fig trees among vines.

Mamet, Raymond

1948. A food-plant catalogue of the insects of Mauritius. Mauritius Dept. Agr. Sci. Ser. Bul. 30:1-74. (Ficus carica, p. 38.) Three coccids listed.

Marchal, Paul

1913. Rapport phytopathologique pour l'année 1912. Bul. Agr. de l'Algérie-Tunisie-Maroc. 9:193-99. (Simaethis nemorana doing great damage to fig trees, p. 198.) See also: Rapport pour 1913. In: Rev. des Malad. des Plantes; Rev. de Phyto-path. Appl. (Paris) (18, 19):9-13.

Marchal, Paul and E. Foex

1921. Rapport phytopathologique pour les années 1919-1920. Ann. des Epiphyt. 1919-1920(7):1-87. Abstracted in: Rev. Appl. Ent. 10:265. Ceroplastes rusci on fig trees; Hemerophila nemorana on leaves.

Marlatt, C. L.

1929. United States Department Agr. Bur. Ent., Rept. of Chief 1928-29:1-39. Trapping of Carpophilus hemipterus in California only partially effective for control; fermenting peaches used for bait.

Marshall, G. A. K.

1914. Four new injurious weevils from Africa. Bul. Ent. Res. 5:235-39. Cyllophorus rubrosignatus sp. nov., on fig in Natal.

Martelli, G.

1925. Contro la cocciniglia del fico. Ceroplastes rusci. R. Osserv. di Fitopat. Puglie Cir. 2:1-6. Abstracted in: Rev. Appl. Ent. 13:266. Scraping the dormant branches with gloved hand recommended.

Martelli, G., et al.

1908. The fig coccid, Ceroplastes rusci. Portici R. Scuola Super. di Agr. Lab. Zool. Gen. e Agr. Bol. 2:296-358.

Martorell, Luis F.

1939. Insects observed in the State of Aragua, Venezuela. Puerto Rico Jour. Agr. 23:177-264. (Schistocerus cornutus, a common borer on fig in United States, p. 201.)

Masse, A. M.

1939. Notes on some interesting insects observed in 1938. East Malling Res. Sta. Rept. 1938:180-85. Abstracted in: Rev. Appl. Ent. 28:99. Eriophyes ficus on leaves; not hitherto recorded in Great Britain.

1941. The Hemiptera-Homoptera associated with cultivated fruits. Soc. Brit. Ent. Jour. 2:99-109. Abstracted in: Rev. Appl. Ent. 31:324. Typhlocyba debilis on figs.

Maxwell-Lefroy, H.

1901. The scale insects of the Lesser Antilles. Part 1. Com. of Agr. for West Indies, Pamphlet Ser. 7. 63 pp. Illus. (Fig, pp. 38, 50, 59.) Three species listed.

Melis, A.

1935. La mosca delle frutta (Ceratitis capitata Wied.) in Toscana. Risultati di alcuni esperimenti di lotta contro di essa. Note di Fruttic (Pistoia). 30 pp. 1 figure. Abstracted in: Rev. Appl. Ent. 23:61. Matures in figs.



Mendes, Candido

1913. Lepidopteros mais damninhos á agricultura nos arredores de S. Fiel, Portugal. *Broteria*, Ser. Zool. 11:40-44.  
Abstracted in: Rev. Appl. Ent. 1:313. Flodia and Ephestia calidella in dried figs; Simaethis nemorana on trees.

Metcalf, C. L., and W. F. Flint

1928. Destructive and useful insects. 918 pp. McGraw Hill Book Co., New York. (Fig insects, see index.) (3d ed.) 1951. 1071 pp.

Michelbacher, A. E.

1954. Ecology and control of vinegar flies in tomato fields. *California Fig Inst. Ann. Res. Conf. Proc.* 8:45-46.

Miller, M. W.

1952. Yeast associated with the dried-fruit beetle in figs. *California Fig Inst. Ann. Res. Conf. Proc.* 6:8-9.

Mimeur, J. M.

1934. Sur la présence au Maroc de deux coccides non encore signalés. *Soc. des Sci. Nat. du Maroc. Bul.* 13:260-61.  
Lecanium ficinum on fig. Reference in: Rev. Appl. Ent. 22:592.

Misra, C. S.

1920. Index to Indian fruit-pests. In: Report 3rd. Ent. Meet. at Pusa, *Proc.* 2:564-95. Feb. 3-15, 1919. (Ficus carica, pp. 576-78.) List of 25 insects with damage done.

Monastero, S.

1930. Ficus carica L. infestato dal Cossus cossus L. Palermo Univ. Ist. Zool. Bul. 2:41-44. Abstracted in: Rev. Appl. Ent. 19:228. Boring in fig tree in Sicily.

Montemartini, Luigi

1942. Contro la tignola del fico (Simaethis nemorana). *Riv. di Patol. Veg.* 32:157.

Morgan, C. F.

1890. Observations on Coccidae. *Ent. Monthly Mag.* 26:226-30. (Mytilaspis ficus, p. 230.) On potted fig trees at Chiswick, England.

Morgan, H. A.

1894. Report of the entomologist. Louisiana Agr. Exp. Sta. Bul. 28:982-1005. (Fig borer, p. 1004.) Prevalent around New Orleans. See also: Bul. 48:128-59. 1897. (Fig borer, Ptychodes trivittatus, pp. 137-39. Pl. 1.) Description, remedies; Lemon and Celeste escape frost damage and therefore seemingly resistant to borer.

Morrill, A. W.

1913. Entomological pioneering in Arizona. Jour. Econ. Ent. 6: 185-95. Allorhina mutabilis; peaches and figs badly attacked.
1917. Notes on important insects of the year. Arizona Comm. Agr. and Hort. Ann. Rept. 9:33-61. (Fig borer, p. 37.) Closely related to Ptychodes trilineatus.

Morris, H. M.

1920. The Hypopus of Carpoglyphus anonymus Haller. Ann. Trop. Med. and Parasitol. (Liverpool) 13:339-42. 1 figure. Abstracted in: Rev. Appl. Ent. 8:222. Infesting dried figs heavily.
1928. Entomological notes. Cyprus Agr. Jour. 23:32-33. Cero-plastes rusci on figs.
1930. Report of the entomologist for 1929 Cyprus Dept. Agr. Ann. Rept. 1929:47-55. Abstracted in: Rev. Appl. Ent. 19:81. C. rusci on fig trees. See also: Rept. 1931:48-52. Abstracted in: Rev. Appl. Ent. 20:581; Rept. 1932:39-43. (Fig, p. 41.) Fig or other fruit trees in citrus plantations assists breeding of fruit fly. Rept. 1938:36-40. Figs as bait for fruit fly.
1936. Injurious insects of Cyprus. Cyprus Agr. Jour. 31:9-11, 58-64, 83-93, 125-32. (Fig, pp. 64, 85, 130.) Includes Cero-plastes, Lonchaea, Drosophila, Gitona.

Moulton, D.

1930. A new genus and species of Thysanoptera from Chile. Rev. Chile. Hist. Nat. 34:272-75. Abstracted in: Rev. Appl. Ent. 18:716. Graphicothrips stuardoi doing much damage to figs.

Muesebeck, C. F. W.

1950. Common names of insects approved by the American Association of Economic Entomologists. Jour. Econ. Ent. 43: 117-38. Fig mite, Aceria ficus; fig scale, Lepidosaphes ficus.

Munro, H. K.

1925. Biological notes on South African Trypanidae (fruit flies). Union So. Africa Dept. Agr. Ent. Mem. 3:39-67. (Fig, pp. 46, 48.) Ceratitis rarely troubles figs; fig a host of Natal fruit fly, Pterandrus rosa.

Munro, H. K., and F. A. Fouche

1936. A list of the scale insects and mealy bugs and their host plants in South Africa. Union So. Africa Dept. Agr. and For. Bul. 158:3-104. (Ficus carica, p. 34.) Several species listed.

Murakami, S.

1936. Observations on Chrysomelidae. (In Japanese.)  
Nojikairyoshiro, Tokyo (106):46-54. 1 figure. Morphos-  
phaera Japonica on figs. Abstracted in: Rev. Appl. Ent.  
24:694.

Nalepa, A.

1929. Neuer Katalog der bisher beschriebenen Gallmilben,  
ihrer Gallen und Wirtspflanzen. Marcellia 25:67-91.  
(Eriophes fici, p. 91.) Cited by H. Keifer, 1938, p. 303.

Naude, T. J.

1940. Work on the control of insect pests. Farming in So.  
Africa, Repr. No. 87. 4 pp. Abstracted in: Rev. Appl. Ent.  
30:31-33. Sciobius granosus observed for first time on  
fig trees.

Neal, J. C.

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lent and complete account.

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- Sequeira, James H., J. T. Ingram, and R. T. Brain  
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Pp. 22-24. In: Investigations with DDT in California,  
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- 1948b. Organic phosphate insecticides. Fig scale. California Agr. 2(4):9. 12. Special Progress Report. Parathion spray reduced infestation.
- 1949a. Control of fig scale with parathion. California Fig Inst. Ann. Res. Conf. Proc. 3:19-20. Results good but material too dangerous for general use.
- 1949b. Parathion tested on fig pests. California Agr. 3(9):10. Also in: Blue Anchor 26(4):28, 29. Control of scale and Pacific mite.
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1943. The effect of root knot on fig seedlings. Plant Dis. Rep. 27:224-25. Two lots of seedlings grown, one infested, the other uninfested; after 4 months all but one of infested seedlings dead.

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